



# RENTAL SOLUTIONS

2 0 2 3 / 2 0 2 4



**COOLING**



**AIR CONDITIONING**



**HEATING**



**POWER SUPPLY**



**ACCESSORIES**



**CUSTOMIZED UNITS**



**SECOND HAND**

**ENERGY**  
to go

Consulting, installation and service from a single source. For temporary HVAC capacity needs.  
Environmentally sound, efficient and economical solutions.

# ACR CHILLER RENT – SPECIALISTS FOR RENTAL SOLUTIONS.



Since its founding in 2004, ACR has focused on the rental of hvac equipment and accessories. acr chiller rent in Munich has grown along with the demands of its customers and is considered to be one of the top names in the industry throughout the German speaking countries. acr chiller rent can offer its customers financing models, long-term leasing and contracting.



# CHILLER RENT



COMPETENT. FAST. RELIABLE

RENTAL MACHINERY AND EQUIPMENT –  
40 MEGAWATTS OF COOLING POWER AT  
YOUR DISPOSAL.

acr chiller rent

3

# MEGAWATTS

Our **rental park** includes continuously maintained units with a rated cooling capacity totaling **40 megawatts**. The reconditioned units ranging from air- and water cooled chillers to Heat Pumps, Rooftops, Fan Coils, Re-Cooler and to turnkey as well as custom-configured refrigeration units to your specific applications, only to mention some of the most common classes.



REFRIGERATION AND  
AIR-CONDITIONING UNITS  
OF ALL CLASSES.  
IN ALL SIZES. FOR EVERY  
COOLING REQUIREMENT.

acr has **chillers in all categories**: The Chillers offer cooling capacities from 1.8 to 3,000 kW per unit. From 200 kW onward, screw compressors commonly are used and up to 400 kW a heat pump function can be ordered. Plate heat exchangers with a maximum rated capacity of 2,500 kW as well as any of the extensive rental accessories in the **acr-range** can be installed by our service team within 24 hours.



## EXAMPLES – OF GOOD REASONS TO RENT.

Whether for production systems, food refrigeration, in pharmaceuticals and chemicals, climate improvement in office buildings or any other events, for dehumidification the reasons for renting **air-conditioning and refrigeration equipment are diverse**. Usually rental is even cheaper than buying. But for whatever reason you decide for a temporary solution to your cooling problem:

acr chiller rent has the right answer for every question. With guaranteed performance, economical and environmentally friendly chillers, which will satisfy any requirement.

### INDUSTRIES AND SCOPE OF APPLICATION

- » FACILITY-MANAGEMENT
- » PLASTIC INDUSTRY
- » PHARMACEUTICALS AND CHEMICALS
- » ENERGY PROVIDER
  
- » AUTOMOTIVE INDUSTRY
- » MECHANICAL ENGINEERING
- » HOSPITAL-/HEALTH CARE TECHNOLOGY
- » IT AIR-CONDITIONING
  
- » PLANT BUILDING
- » REFRIGERATION SPECIALTY BUSINESS
- » FOOD-/BEVERAGE INDUSTRY
- » EVENT

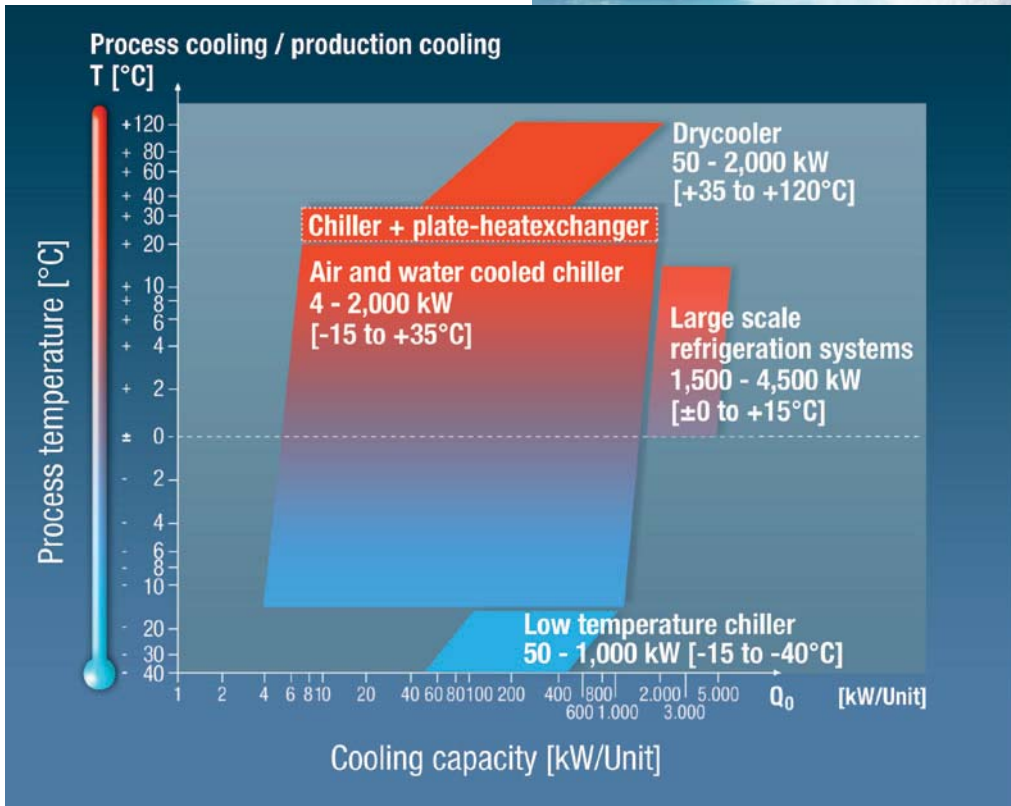


REASONS

# PROCESS COOLING/ PRODUCTION COOLING

In manufacturing, a constant temperature level is a prerequisite to keep the production processes running as well as to **guarantee quality standards**. The process cooling must be guaranteed during temporary load peaks.

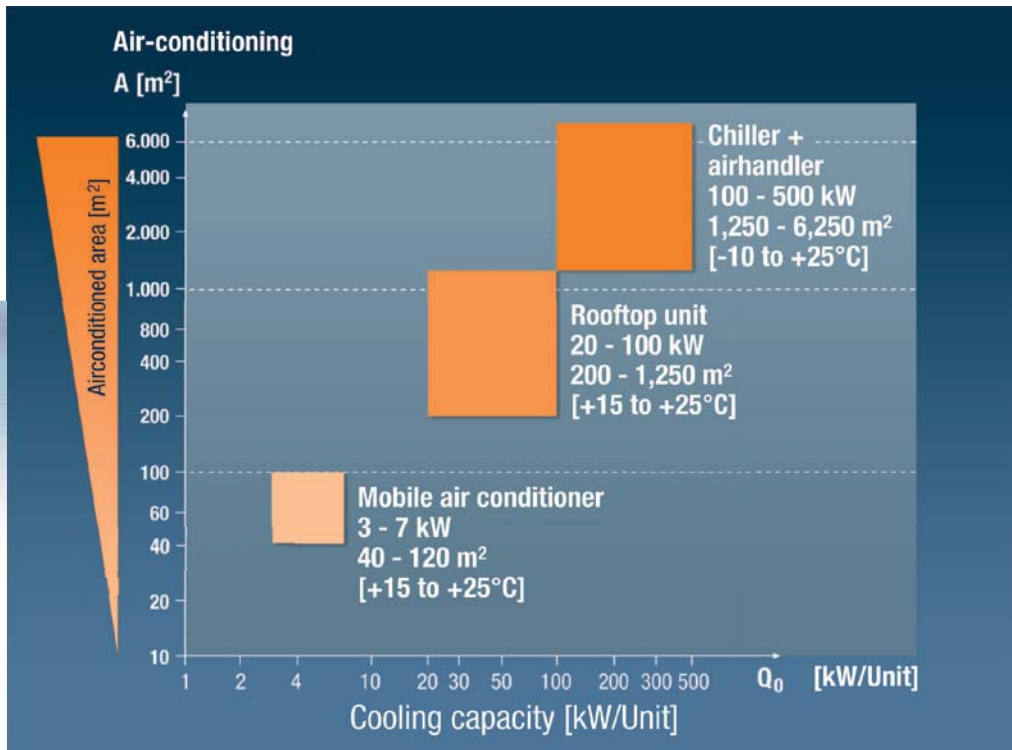
The cooling media such as water, oil, emulsions or air are kept to the required temperature level **using the most modern dependable and efficient chillers and drycoolers from acr chiller rent**.



# AIR-CONDITIONING

The climatic conditions in inside rooms – especially during the summer months and at peak load times – can sustainably be optimized by mobile rental cooling. In offices, computer centers, at events in tents as well as in production halls and warehouses the available cooling capacity can be either enhanced or, entirely or partially replaced.

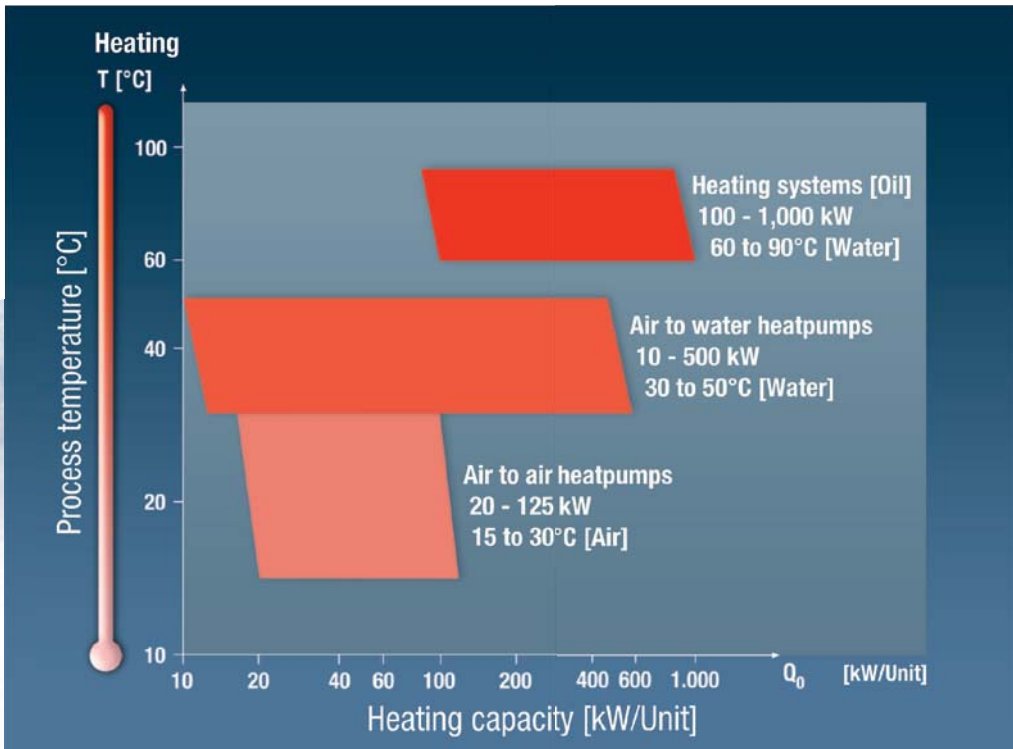
All solutions for a fast and dependable rental air-conditioning increase your productivity, liquidity and competitiveness.



# HEATING

A regulated heating source is indispensable for numerous processes in production, but also when the heating and warm water system is down, or an emergency heating in residential or office and administration complexes, on construction sites, or temporarily at Events on outside locations such as tents or containers. The acr chiller rental mobile heating systems deliver warm air or warm water dependably as required always and everywhere.

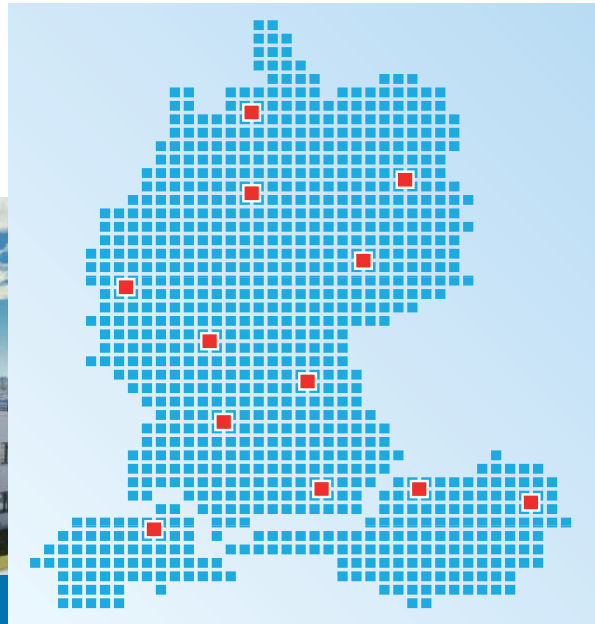
We have ready a complete offer of heaters, heating systems as well as our extensive assortment of accessories, with which you can handle critical situations with ease. We can show you how you can effectively react to emergencies and bottlenecks by utilizing additional rental reserve capacities.



## MAINTENANCE AND SERVICE – WE ARE ALWAYS AVAILABLE!

Fast and competent customer care is guaranteed by the **service bases** which are distributed all over Germany, Austria and Switzerland and networked with the Munich headquarters.

**9 Bases in Germany, 2 in Austria and  
1 in Switzerland**



ALWAYS IN YOUR VICINITY





# A SELECTION FROM THE ACR CHILLER RENT-CUSTOMER LIST – A MIRROR SHOWING CONFIDENCE...


A large, jagged iceberg floats in the ocean under a bright, hazy sky. The iceberg is the central focus, with its sharp peaks and textured surface clearly visible. The water is a pale blue, and the sky is a mix of white and light blue, suggesting a bright, overcast day. The overall mood is serene and somewhat ethereal.

# ENERGY

to go

## Index



COOLING



AIR CONDITIONING



HEATING



POWER SUPPLY



ACCESSORIES



CUSTOMIZED UNITS



SECOND HAND

COOLING

AIR  
CONDITIONING

HEATING

POWER SUPPLY

ACCESSORIES

CUSTOMIZED  
UNITS

SECOND HAND



**ENERGY**  
to go



# COOLING



**AIR-COOLED LIQUID CHILLERS**

**PAGE 15**



**WATER-COOLED LIQUID CHILLERS**

**PAGE 41**



**LOW TEMPERATURE UNITS**

**PAGE 47**

Air-cooled Liquid Chillers (down to -15°C)

49

Water-cooled Liquid Chillers (down to -45°C)

55



**DRYCOOLER / COOLING TOWER**

**PAGE 57**

Drycooler

59

Cooling Tower

63





## AIR-COOLED LIQUID CHILLERS

The particularly compact units are ideal for exterior placement. With a capacity of 9 kW to 1,400 kW per cooler, fluids can be cooled in the temperature range between plus 25°C (can also be higher in conjunction with plate heat exchangers) and -15°C. The optional heat pump function configurable for alternating cooling or heating requirements as well as for use with the acr drycooler units for free cooling.

The **air-cooled acr rental liquid chillers** can be applied in all areas where liquids are to be cooled. The areas of application are manifold: For example, the units are used in building air-conditioning, production processes, test setups, medical technology, pharmaceuticals, food processing, beverage industry, chemical industry, plastics industry, ice rinks, and in many other areas.

The installation and integration is very simple: The **air-cooled chillers** in the **acr rental park** are designed for outdoor installation and can be installed on any viable ground. After connecting the pre-configured flexible hoses and the power cabling the mobile refrigeration unit can go into operation.



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\*Toll-free calls throughout Germany



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## ACR-M-9/P – Technical Specifications – Rental Chiller



### Quick overview

Rotation  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpFrequency  
Drive

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>8,0</b>
Power input	kW	2,57
Voltage	V/Hz/Ph	230/50/1
Operating current	A	19,9
Electrical connection	230V	Schuko Socket
** Fuse protection	A	20
** Cable recommendation	mm <sup>2</sup>	3x2,5
Flow rate	m <sup>3</sup> /h	1,37
Max. operating pressure	bar	6
External pressure head	m	6,2
Cold water connections	Storz	C
Capacity control	%	20 – 100% (FD)
Refrigerant	–	R410A
Sound pressure at 5m	dB(A)	45
Transport weight	kg	167
Dimensions (l x w x h)	mm	650x1350x1230

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 6,2m (62kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.





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\*Toll-free calls throughout Germany



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## ACR-M-12/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Remote Monitoring



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>12</b>
Power input	kW	5,3
Voltage	V/Hz/Ph	400/50/3
Operating current	A	13
Electrical connection	Socket	CEE 16A
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	5x2,5
Flow rate	m <sup>3</sup> /h	2,23
Max. operating pressure	bar	6
External pressure head	m	16
Cold water connections	Storz	C
Capacity control	Steps	1
Refrigerant	-	R407C
Sound pressure at 5m	dB(A)	49
Transport weight	kg	310
Dimensions (l x w x h)	mm	1750x700x1550

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 16m (160kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-20/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageRemote  
MonitoringExt. Buffer  
Storage

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>22</b>
Power input	kW	8,3
Voltage	V/Hz/Ph	400/50/3
Operating current	A	22,5
Electrical connection	Socket	CEE 32A
** Fuse protection	A	25
** Cable recommendation	mm <sup>2</sup>	5x4
Flow rate	m <sup>3</sup> /h	3,74
Max. operating pressure	bar	6
External pressure head	m	14
Cold water connections	Storz	C
Capacity control	Steps	1
Refrigerant	-	R407C
Sound pressure at 5m	dB(A)	53
Transport weight	kg	440
Dimensions (l x w x h)	mm	2050x750x1600

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 14m (140kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-30/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll  
Compressor

Refrigerant

Process  
Temperature

-8°C bis +20°C

Integrated  
PumpFrequency  
Drive

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>30</b>
Power input	kW	9,95
Voltage	V/Hz/Ph	400 / 50 / 3
Operating current	A	29
Electrical connection	Socket	CEE 32A
** Fuse protection	A	32
** Cable recommendation	mm <sup>2</sup>	5x6
Flow rate	m <sup>3</sup> /h	5,5
Max. operating pressure	bar	6
External pressure head	m	9
Cold water connections	Storz	C
Capacity control	%	25 – 100 (FD)
Refrigerant	–	R410A
Sound pressure at 5m	dB(A)	48
Transport weight	kg	450
Dimensions (l x w x h)	mm	1700x900x1950

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 9m (90kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-40/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll  
Compressor

Refrigerant

Frequency  
DriveIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>40</b>
Power input	kW	14
Voltage	V/Hz/Ph	400/50/3
Operating current	A	43
Electrical connection	Socket	CEE 63A
** Fuse protection	A	50
** Cable recommendation	mm <sup>2</sup>	16
Flow rate	m <sup>3</sup> /h	3,9
Max. operating pressure	bar	6
External pressure head	m	37
Cold water connections	Storz	C
Capacity control	%	25-100 (FD)
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	55
Transport weight	kg	623
Dimensions (l x w x h)	mm	2200x1200x2120

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 37m (370kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-50/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpFrequency  
Drive

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>50</b>
Power input	kW	19,7
Voltage	V/Hz/Ph	400/50/3
Operating current	A	49,6
Electrical connection	Socket	CEE 63A
** Fuse protection	A	63
** Cable recommendation	mm <sup>2</sup>	5x16
Flow rate	m <sup>3</sup> /h	8,9
Max. operating pressure	bar	6
External pressure head	m	33
Cold water connections	Storz	C
Capacity control	%	20-120 (FD)
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	65
Transport weight	kg	850
Dimensions (l x w x h)	mm	2450x1150x1950

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 33m (330kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-60/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll  
Compressor

Refrigerant

Frequency  
DriveIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>59</b>
Power input	kW	22
Voltage	V/Hz/Ph	400/50/3
Operating current	A	63
Electrical connection	Socket	CEE 63A
** Fuse protection	A	63
** Cable recommendation	mm <sup>2</sup>	16
Flow rate	m <sup>3</sup> /h	10
Max. operating pressure	bar	6
External pressure head	m	32
Cold water connections	Storz	C
Capacity control	%	25-100 (FD)
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	56
Transport weight	kg	830
Dimensions (l x w x h)	mm	2610x1200x2120

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 32m (320kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-75/WP/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpHeat  
Pump

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
ExchangerElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	<b>kW</b>	<b>75</b>
**Heating capacity	<b>kW</b>	<b>82</b>
Power input	kW	28
Voltage	V/Hz/Ph	400/50/3
Operating current	A	66
Electrical connection	Cable terminals	3 Ph + PE
*** Fuse protection	A	80
*** Cable recommendation	mm <sup>2</sup>	5x25
Flow rate	m <sup>3</sup> /h	13,0
Max. operating pressure	bar	6
External pressure head	m	23
Cold water connections	Storz	B
Capacity control	Steps	2
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	54
Transport weight	kg	1300
Dimensions (l x w x h)	mm	3400x1430x2130

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* Design conditions: Hot water temperatures 40°/45°, Ambient temperature 7°C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller with heat pump function for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 23m (230kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-100/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>95</b>
Power input	kW	35
Voltage	V/Hz/Ph	400/50/3
Operating current	A	87
Electrical connection	Socket	CEE125 A
** Fuse protection	A	100
** Cable recommendation	mm <sup>2</sup>	5x35
Flow rate	m <sup>3</sup> /h	16,6
Max. operating pressure	bar	6
External pressure head	m	21
Cold water connections	Storz	B
Capacity control	Steps	2
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	58
Transport weight	kg	1200
Dimensions (l x w x h)	mm	2800x1420x2100

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 21m (210kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-M-130/WP/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll Compressor



Refrigerant



Heat Pump



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Ext. Buffer Storage



Heat Exchanger



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	126
**Heating capacity	kW	133
Power input	kW	42
Voltage	V/Hz/Ph	400/50/3
Operating current	A	101
Electrical connection	Socket	CEE125 A
** Fuse protection	A	125
** Cable recommendation	mm <sup>2</sup>	5x35
Flow rate	m <sup>3</sup> /h	21,6
Max. operating pressure	bar	6
External pressure head	m	24
Cold water connections	Storz	B
Capacity control	Steps	2
Refrigerant	–	R 32
Sound pressure at 5m	dB(A)	57
Transport weight	kg	1500
Dimensions (l x w x h)	mm	4000x1460x2100

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* Design conditions: Hot water temperatures 40°/45°, Ambient temperature 7°C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller with heat pump function for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 24m (240kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-140/P – Technical Specifications – Rental Chiller

### Quick overview

Scroll  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!



### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>139</b>
Power input	kW	51
Voltage	V/Hz/Ph.	400/50/3
Operating current	A	112
Electrical connection	Socket	CEE 125 A
** Fuse protection	A	125
** Cable recommendation	mm <sup>2</sup>	5x35
Flow rate	m <sup>3</sup> /h	24,0
Max. operating pressure	bar	6
External pressure head	m	16
Cold water connections	Storz	B
Capacity control	Steps	2
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	63
Transport weight	kg	1200
Dimensions (l x w x h)	mm	3200x1200x1800

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 16m (160kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-M-150/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>144</b>
Power input	kW	45
Voltage	V/Hz/Ph	400/50/3
Operating current	A	106
Electrical connection	Socket	CEE 125 A
** Fuse protection	A	125
** Cable recommendation	mm <sup>2</sup>	5x35
Flow rate	m <sup>3</sup> /h	24,6
Max. operating pressure	bar	6
External pressure head	m	15
Cold water connections	Storz	B
Capacity control	Steps	3
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	63
Transport weight	kg	1350
Dimensions (l x w x h)	mm	4000x1500x2100

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 15m (150kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-180/P – Technical Specifications – Rental Chiller

### Quick overview

Scroll  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>171</b>
Power input	kW	60
Voltage	V/Hz/Ph	400/50/3
Operating current	A	152
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	160
** Cable recommendation	mm <sup>2</sup>	4x70
Flow rate	m <sup>3</sup> /h	29,2
Max. operating pressure	bar	10
External pressure head	m	10
Cold water connections	Storz	A
Capacity control	Steps	4
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	63
Transport weight	kg	1400
Dimensions (l x w x h)	mm	4080x1220x2400

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 10m (100kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-220/P – Technical Specifications – Rental Chiller



### Quick overview

Schrauben-  
verdichter

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>215</b>
Power input	kW	68,6
Voltage	V/Hz/Ph	400/50/3
Operating current	A	166
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	200
** Cable recommendation	mm <sup>2</sup>	4 x 95 (Single wire)
Flow rate	m <sup>3</sup> /h	36,7
Max. operating pressure	bar	6
External pressure head	m	20
Cold water connections	Storz	A
Capacity control	%	25 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	65
Transport weight	kg	2800
Dimensions (l x w x h)	mm	4200x1390x2550

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with a very quiet running screw compressor. The liquid cooler has an integrated cold water pump head height of 20m (200kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-260/P – Technical Specifications – Rental Chiller

### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!



### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>261</b>
Power input	kW	96
Voltage	V/Hz/Ph	400/50/3
Operating current	A	208
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	250
** Cable recommendation	mm <sup>2</sup>	4x 95 (Single wire)
Flow rate	m <sup>3</sup> /h	44,8
Max. operating pressure	bar	6
External pressure head	m	17
Cold water connections	Storz	A
Capacity control	Steps	4
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	64
Transport weight	kg	2000
Dimensions (l x w x h)	mm	2330x2240x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 17m (170kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-310/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>306</b>
Power input	kW	121
Voltage	V/Hz/Ph	400/50/3
Operating current	A	257
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	315
** Cable recommendation	mm <sup>2</sup>	4 x 120 (Single wire)
Flow rate	m <sup>3</sup> /h	52,7
Max. operating pressure	bar	10
External pressure head	m	20
Cold water connections	Storz	A
Capacity control	Steps	4
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	65
Transport weight	kg	2400
Dimensions (l x w x h)	mm	3230x2300x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 20m (200kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-380/P – Technical Specifications – Rental Chiller

### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!



### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>375</b>
Power input	kW	121
Voltage	V/Hz/Ph	400/50/3
Operating current	A	305
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	315
** Cable recommendation	mm <sup>2</sup>	4 x 150 (Single wire)
Flow rate	m <sup>3</sup> /h	64,3
Max. operating pressure	bar	10
External pressure head	m	24
Cold water connections	Storz	A
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	67
Transport weight	kg	4300
Dimensions (l x w x h)	mm	4200x2300x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with a very quiet running screw compressor. The liquid cooler has an integrated cold water pump head height of 24m (240kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M420/P – Technical Specifications – Rental Chiller



### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>415</b>
Power input	kW	156
Voltage	V/Hz/Ph	400/50/3
Operating current	A	324
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	400
** Cable recommendation	mm <sup>2</sup>	4 x 185 (Single wire)
Flow rate	m <sup>3</sup> /h	71,5
Max. operating pressure	bar	6
External pressure head	m	20
Cold water connections	Storz	A
Capacity control	Steps	4
Refrigerant	-	R32
Sound pressure at 5m	dB(A)	65
Transport weight	kg	3150
Dimensions (l x w x h)	mm	4200x2300x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running scroll compressors. The liquid cooler has an integrated cold water pump head height of 20m (200kPa), it should be set up on a horizontal, stable work area and have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-500/P – Technical Specifications – Rental Chiller



### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>501</b>
Power input	kW	166
Voltage	V/Hz/Ph	400/50/3
Operating current	A	364
Electrical connection	Cable terminals	-
** Fuse protection	A	5400
** Cable recommendation	mm <sup>2</sup>	4 x 240 (Single wire)
Flow rate	m <sup>3</sup> /h	86,1
Max. operating pressure	bar	10
External pressure head	m	23
Cold water connections	Storz	A
Capacity control	%	12,5-100
Refrigerant	-	R 134a
Sound pressure at 5m	dB(A)	67
Transport weight	kg	5000
Dimensions (l x w x h)	mm	4200x2300x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with a very quiet running screw compressor. The liquid cooler has an integrated cold water pump head height of 23m (230kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-550/P – Technical Specifications – Rental Chiller



### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>548</b>
Power input	kW	185
Voltage	V/Hz/Ph	400/50/3
Operating current	A	398
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	400
** Cable recommendation	mm <sup>2</sup>	4 x 240 (Single wire)
Flow rate	m <sup>3</sup> /h	95,0
Max. operating pressure	bar	10
External pressure head	m	20
Cold water connections	Storz	A
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	69
Transport weight	kg	4350
Dimensions (l x w x h)	mm	4300x2300x2400

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with a very quiet running screw compressor. The liquid cooler has an integrated cold water pump head height of 20m (200kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-570/P – Technical Specifications – Rental Chiller

### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>568</b>
Power input	kW	188
Voltage	V/Hz/Ph	400/50/3
Operating current	A	439
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	500
** Cable recommendation	mm <sup>2</sup>	7x95 (Single wire)
Flow rate	m <sup>3</sup> /h	97,5
Max. operating pressure	bar	10
External pressure head	m	25
Cold water connections	Storz	A
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	67
Transport weight	kg	5000
Dimensions (l x w x h)	mm	5100x2300x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with a very quiet running screw compressor. The liquid cooler has an integrated cold water pump head height of 25m (250kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-800/P – Technical Specifications – Rental Chiller



### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>784</b>
Power input	kW	281
Voltage	V/Hz/Ph	400/50/3
Operating current	A	601
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	630
** Cable recommendation	mm <sup>2</sup>	7x150 (Single wire)
Flow rate	m <sup>3</sup> /h	134,6
Max. operating pressure	bar	10
External pressure head	m	25
Cold water connections	Storz	125
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	62
Transport weight	kg	6200
Dimensions (l x w x h)	mm	6100x2300x2760

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with a very quiet running screw compressor. The liquid cooler has an integrated cold water pump head height of 25m (250kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-1050 – Technical Specifications – Rental Chiller

### Quick overview

Screw  
Compressor



Refrigerant



Process  
Temperature



Sound  
Level



### Optionally accessories

Cold Water  
Tubes



Ext. Pump  
Module



Heat  
Exchanger



Electrical  
Cables



Remote  
Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>1053</b>
Power input	kW	349
Voltage	V/Hz/Ph	400/50/3
Operating current	A	699
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	on site
** Cable recommendation	mm <sup>2</sup>	7 x 240 (Single wire)
Flow rate	m <sup>3</sup> /h	181,44
Max. operating pressure	bar	10
External pressure head	m	-
Cold water connections	Storz	125
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	62
Transport weight	kg	8600
Dimensions (l x w x h)	mm	8700x2300x2540

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running screw compressors. The fluid cooler should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-1240-1 – Technical Specifications – Rental Chiller



### Quick overview

Screw  
Compressor

Refrigerant



R 134a

Process  
Temperature

-12°C bis +20°C

Sound  
Level

low noise

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
ExchangerElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>1243</b>
Power input	kW	444
Voltage	V/Hz/Ph	400/50/3
Operating current	A	886
Electrical connection	Cable terminals	-
** Fuse protection	A	on site
** Cable recommendation	mm <sup>2</sup>	11 x 150 (Single wire)
Flow rate	m <sup>3</sup> /h	213,4
Max. operating pressure	bar	10
External pressure head	m	-
Cold water connections	Storz	125
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	68
Transport weight	kg	7200
Dimensions (l x w x h)	mm	7810x2300x2540

\* Design conditions: Evaporator water temperatures 12/7°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold water is equipped with very quiet running screw compressors. The fluid cooler should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.







## LIQUID CHILLERS WATER-COOLED

Chillers for installation in dry and frost-free environments. With a capacity of 200 kW to 3,000 kW per cooler, fluids can be cooled in the temperature range between plus 25°C (can also be higher in conjunction with plate heat exchangers) and -10°C. Optionally the acr drycoolers can be configured to provide free cooling. Cooling (heat dissipation of the condenser heat) is achieved via an existing cooling system, or alternatively through an acr rental wet or drycooler.

The **water-cooled acr rental liquid chillers** can be applied in all areas where fluids are to be cooled. The areas of application are manifold: For example, the units are used in building air-conditioning, production processes, test setups, medical technology, pharmaceuticals, food processing, beverage industry, chemical industry, plastics industry, and in many other areas.

The installation and integration is very simple: The **water-cooled liquid chillers** in the **acr rental park** are designed for installation in a dry, frost-free location and can be installed on any suitable ground. After connecting the pre-configured flexible cold and coolant hoses and the power cabling the mobile refrigeration unit can go into operation.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-100-W – Technical Specifications – Rental Chiller

### Quick overview

Scroll  
Compressor

Refrigerant

Process  
TemperatureSound  
Level

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleExt. Buffer  
StorageCooling Tower/  
Dry-coolerElectrical  
Cables

Different requirements and applications can be provided on request!



### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>94</b>
Power input	kW	22
Voltage	V/Hz/Ph	400/50/3+N+PE
Operating current	A	62
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	80
** Cable recommendation	mm <sup>2</sup>	4 x 25
Flow rate Evaporator	m <sup>3</sup> /h	16,2
Flow rate Condenser	m <sup>3</sup> /h	16,9
Max. operating pressure	bar	10
Cold water connections	Storz	B
Condenser water connections	Storz	B
Capacity control	Steps	2
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	50
Transport weight	kg	460
Dimensions (l x w x h)	mm	1800x710x1930

\* Design conditions: Evaporator water temperatures 12/7°  
Condenser water temperatures 29/35°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The water-cooled fluid chillers for mechanical cold water-/fluid cooling, are equipped with two quiet running scroll compressors. The plate evaporator and the plate condenser consist of stainless steel. The unit should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-150-W – Technical Specifications – Rental Chiller



### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureSound  
Level

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleExt. Buffer  
StorageCooling Tower/  
Dry-coolerElectrical  
Cables

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>154</b>
Power input	kW	39,5
Voltage	V/Hz/Ph	400/50/3
Operating current	A	107
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	125
** Cable recommendation	mm <sup>2</sup>	50
Flow rate Evaporator	m <sup>3</sup> /h	26,6
Flow rate Condenser	m <sup>3</sup> /h	33,5
Max. operating pressure	bar	6
Cold water connections	Storz	B
Condenser water connections	Storz	B
Capacity control	%	25-100
Sound pressure at 5m	dB(A)	71
Refrigerant	-	R134a
Transport weight	kg	1500
Dimensions without Connections (l x w x h)	mm	2700x920x1020
Dimensions with Connections (l x w x h)	mm	3650x920x1020

\* Design conditions: Evaporator water temperatures 12/7°  
Condenser water temperatures 29/35°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The water-cooled fluid chillers for mechanical cold water-/fluid cooling, are equipped with two quiet running scroll compressors. The plate evaporator and the plate condenser consist of stainless steel. The unit should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-290-W – Technical Specifications – Rental Chiller with Reversible Heat Pump Function

### Quick overview

Scroll Compressor



Refrigerant



Process Temperature



Heat Pump Function



### Optionally accessories

Cold Water Tubes



Ext. Pump Module



Ext. Buffer Storage



Cooling Tower/ Dry-cooler



Electrical Cables



Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	291
**Heating capacity	kW	388
Power input	kW	74
Voltage	V/Hz/Ph	400/50/3
Operating current	A	183
Electrical connection	Cable terminals	3 Ph + PE
*** Fuse protection	A	200
*** Cable recommendation	mm <sup>2</sup>	4 x 95
Flow rate Evaporator	m <sup>3</sup> /h	50,0
Flow rate Condenser	m <sup>3</sup> /h	62,6
Max. operating pressure	bar	10
Cold water connections	Storz	B
Condenser water connections	Storz	B
Capacity control	Steps	3
Refrigerant	-	R410A
Sound pressure at 5m	dB(A)	68
Transport weight	kg	1200
Dimensions (l x w x h)	mm	2432 x 928 x 1186

\* Design conditions: Evaporator water temperatures 12/7°  
Condenser water temperatures 29/35°C

\*\* Design Conditions: Hot water temperatures 40°/45°,  
Evaporator water temperatures 15°/10°

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The water-cooled liquid chillers with reversible operation can be used for cooling/heating. The unit are equipped with two quiet running scroll compressors. The plate evaporator and the plate condenser consist of stainless steel. The unit should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-900-W – Technical Specifications – Rental Chiller



### Quick overview

Screw  
Compressor

Refrigerant

Process  
Temperature

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleExt. Buffer  
StorageCooling Tower/  
Dry-coolerElectrical  
Cables

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>858</b>
Power input	kW	175
Voltage	V/Hz/Ph	400/50/3
Operating current	A	504
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	630
** Cable recommendation	mm <sup>2</sup>	4x150 (Single wire)
Flow rate Evaporator	m <sup>3</sup> /h	123,0
Flow rate Condenser	m <sup>3</sup> /h	104,0
Max. operating pressure	bar	10
Cold water connections	Flange	DN 125
Condenser water connections	Flange	DN125
Capacity control	%	25-100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	72
Transport weight	kg	4000
Dimensions (l x w x h)	mm	4200x1400x2200

\* Design conditions: Evaporator water temperatures 12/7°  
Condenser water temperatures 29/35°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The water-cooled liquid chillers for mechanical cold water-/fluid cooling, are equipped with two quiet running screw compressors. The shell and tube evaporator and condenser are enclosed by a steel shell. The unit should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-3000-W – Technical Specifications – Rental Chiller

### Quick overview

Centrifugal  
Compressor

Refrigerant

Process  
Temperature

°0°C bis +15°C

### Optionally accessories

Ext. Pump  
ModuleHeat  
ExchangerExt. Buffer  
StorageCooling Tower/  
Dry-coolerElectrical  
Cables

Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	<b>kW</b>	<b>2.800</b>
*Re-cooling capacity	<b>kW</b>	<b>3.307</b>
Power input	kW	506
Voltage	V/Hz/Ph	400/50/3
Operating current	A	920
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	3x315
** Cable recommendation	mm <sup>2</sup>	11x185 (Single wire)
Flow rate Evaporator	m <sup>3</sup> /h	402
Flow rate Condenser	m <sup>3</sup> /h	358
Pressure drop Evaporator	kPa	91
Pressure drop Condenser	kPa	57
Max. operating pressure	bar	10
Cold water connections	Storz	2x125
Condenser water connections	Storz	2x125
Capacity control	–	%
Refrigerant	–	R134a
Transport weight	kg	11182
Dimensions (l x w x h)	mm	4800x2100x2200

\* Design conditions: Evaporator water temperatures 12/7°  
Condenser water temperatures 29/35°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The water-cooled liquid chillers for mechanical cold water-/fluid cooling, are equipped with a quiet running centrifugal compressor. The shell and tube evaporator and condenser are enclosed by a steel shell. The unit should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.





## LOW-TEMP LIQUID CHILLERS



AIR-COOLED LIQUID CHILLERS (DOWN TO -15°C)

**PAGE 49**



WATER-COOLED LIQUID CHILLERS (DOWN TO -30°C)

**PAGE 55**



# ENERGY

t o g o





## AIR-COOLED LIQUID CHILLERS (DOWN TO -15°C)

The especially compact air cooled liquid coolers are ideal **for set up in the outdoors**. With a capacity of up to **300 kW** per unit, at a brine temperature down to minus 15°C, all conditions and scopes can be covered. Different power levels with or without hydraulic switches, plate heat exchangers, mixing and switching valves, regulation technology, remote monitoring, respectively as a ready to use fluid cooler of acr.

The **mobile acr rental units** can be applied in all areas where liquids are to be cooled. The areas of application are manifold: For example, the units are used in production processes, test setups, in the automotive industry, medical technology, pharmaceuticals, food processing, chemical industry, and in many other areas.

The installation and integration is very simple: The mobile chillers in the acr rental park are designed for outdoor installation and can be installed on any viable ground. After connecting the hoses on the cold water circuit and in some cases on the coolant circuit, as well as the power cabling, the mobile refrigeration unit can go into operation.



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\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-140-P – Technical Specifications – Rental Chiller LT



### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>62</b>
Power input	kW	36
Voltage	V/Hz/Ph	400/50/3
Operating current	A	115
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	125
** Cable recommendation	mm <sup>2</sup>	4 x 50
Flow rate	m <sup>3</sup> /h	12,2
Maximum operating pressure	bar	10
External pressure head	m	27
Cold water connections	Storz	B
Capacity control	%	25 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	62
Transport weight	kg	2300
Dimensions (l x w x h)	mm	3250x1570x2400

\* Design conditions: Evaporator brine temperatures -10/-15°, Ambient temperature 35 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold brine is equipped with very quiet running screw compressors. The fluid cooler has an integrated cold water pump head height of 27m (270kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-220/P – Technical Specifications – Rental Chiller LT



### Quick overview

Screw Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>99</b>
Power input	kW	49
Voltage	V/Hz/Ph	400/50/3
Operating current	A	166
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	200
** Cable recommendation	mm <sup>2</sup>	4 x 95
Flow rate	m <sup>3</sup> /h	16,2
Max. operating pressure	bar	6
External pressure head	m	24
Cold water connections	Storz	A
Capacity control	%	25 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	65
Transport weight	kg	2800
Dimensions (l x w x h)	mm	4200x1390x2550

\* Design conditions: Evaporator brine temperatures -9/-15°, Ambient temperature 30 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold brine is equipped with very quiet running screw compressors. The fluid cooler has an integrated cold water pump head height of 24m (240kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-360/P – Technical Specifications – Rental Chiller LT



### Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Cold Water  
TubesHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>158</b>
Power input	kW	79,2
Voltage	V/Hz/Ph	400/50/3
Operating current	A	276
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	315
** Cable recommendation	mm <sup>2</sup>	120 (Single wire)
Flow rate	m <sup>3</sup> /h	26,3
Max. operating pressure	bar	10
External pressure head	m	20
Cold water connections	Storz	A
Capacity control	%	25 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	65
Transport weight	mm	3200
Dimensions (l x w x h)	mm	3100x2300x2380

\* Design conditions: Evaporator brine temperatures -10/-15°, Ambient temperature 30 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold brine is equipped with very quiet running screw compressors. The fluid cooler has an integrated cold water pump head height of 20m (200kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-550/P – Technical Specifications – Rental Chiller LT



### Quick overview

Screw Compressor



Refrigerant



Process Temperature



Integrated Pump



Sound Level



### Optionally accessories

Cold Water Tubes



Heat Exchanger



Ext. Buffer Storage



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>268</b>
Power input	kW	145
Voltage	V/Hz/Ph	400/50/3
Operating current	A	379
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	400
** Cable recommendation	mm <sup>2</sup>	185 (Single wire)
Flow rate	m <sup>3</sup> /h	53,3
Max. operating pressure	bar	10
External pressure head	m	25
Cold water connections	Storz	A
Capacity control	%	12,5 - 100
Refrigerant	-	R134a
Sound pressure at 5m	dB(A)	65
Transport weight	kg	4350
Dimensions (l x w x h)	mm	4300x2300x2400

\* Design conditions: Evaporator brine temperatures -10/-15°, Ambient temperature 30 °C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooled corrosion resistant chiller for outdoor locations. This mechanical refrigeration unit for providing cold brine is equipped with very quiet running screw compressors. The fluid cooler has an integrated cold water pump head height of 25m (250kPa), it should be set up on a horizontal, stable work area and have at least 2m free space to all sides. All controls and regulators are contained within the housing.





## WATER-COOLED LIQUID CHILLERS (DOWN TO $-30^{\circ}\text{C}$ )

For the generation of extremely low temperatures, down to minus  $30^{\circ}\text{C}$ . The units are equipped with an extremely rugged and smooth-running screw compressor. High performance numbers and low operating costs characterize the equipment which is installed in a weatherproof container. Different power levels with or without hydraulic switches, plate heat exchangers, mixing and switching valves, cooling tower, drycooler, regulation and control technology, remote monitoring, installed by acr as a ready to operate extreme low temperature refrigeration plant. The high level of flexibility makes possible the reduction or increase of capacity as needed during the term of the lease.

The **mobile acr extreme low temperature refrigeration units** can be applied in all areas where extreme cooling of liquids is necessary. The areas of application are manifold: For example, the units are used in production processes, test setups, in the automotive industry, medical technology, pharmaceuticals, food processing, chemical industry, and in many other areas.

The installation and integration is very simple: The mobile extreme low temperature chillers in the acr rental park are designed for outdoor installation and can be installed on any viable ground. After connecting the hoses on the cold water circuit and in some cases on the coolant circuit, as well as the power cabling, the mobile refrigeration unit can go into operation.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

# ACR-TT2-320 – Technical Specifications – Chiller Low-Temp

## Quick overview

Screw  
Compressor

Refrigerant

Process  
TemperatureIntegrated  
PumpTitanium  
evaporator

## Optionally accessories

Ext. Pump  
ModuleHeat  
ExchangerExt. Buffer  
StorageElectrical  
CablesCooling Tower/  
Dry-cooler

Different requirements and applications can be provided on request!

## Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>320</b>
Power input	kW	310
Voltage	V/Hz/Ph	400/50/3
Operating current	A	502
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	630
** Cable recommendation	mm <sup>2</sup>	4x120 (Single wire)
Flow rate Verd.	m <sup>3</sup> /h	87,0
Flow rate Verf.	m <sup>3</sup> /h	108,0
Max. operating pressure	bar	10
Cold water connections	Flange	DN 125
Condenser water connections	Flange	DN 125
Capacity control	%	25 - 100
Refrigerant	-	R507A
Transport weight	kg	11000
Dimensions (l x w x h)	mm	5500x2500x2700

\* Design conditions: Evaporator brine temperatures -20/-24°  
(Brine: CaCl<sub>2</sub>/H<sub>2</sub>O 28/72%)

→ Different requirements and applications on request.

\*\* On-Site power installation should be entrusted to an electrical specialist.

## Technical description:

Corrosion resistant, water cooled liquid chiller for outdoor locations. The unit is used for mechanical brine cooling to -30°C at the evaporator outlet.

Consists of the following main components: Screw compressor, oil precipitator, oil cooler, Economizer; titanium vaporizer, condenser, electrical cabinet for all controls and regulation. Housing cooling and floor pan according to WHG. Extensive optional accessories are available.







## DRYCOOLER / COOLING TOWERS



DRYCOOLER

PAGE 59



COOLING TOWERS

PAGE 63





## DRY- COOLER

A stable and corrosion-resistant design for outdoor installation with reliable and quiet running axial fans. An optimized heat exchanger in the Cu-Al version ensures maximum efficiency values. The acr drycooler can be used for water cooled liquid chillers as a free cooling unit, or for direct free cooling of fluids between plus 120°C and plus 5°C by means of ambient air. The units have an integrated control cabinet. A temperature sensor on the medium-outlet side regulates the medium temperature. At higher temperatures, and for special material requirements, these coolers can be combined with acr plate heat exchangers for system separation.

The **acr drycoolers** can be used for cooling of existing or rented water-cooled liquid chillers. Another application is the direct cooling of liquids by means of ambient air as a free cooling unit. The areas of application are manifold: For example, the units are used in building air-conditioning, production processes, test setups, medical technology, pharmaceuticals, food processing, beverage industry, chemical industry, plastics industry, and in many other areas.

**The installation and integration is very simple:** The mobile drycoolers in the acr rental park are designed for outdoor installation and can be installed on any viable ground. After connecting the pre-configured flexible hoses and the power cabling the cooler can go into operation.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

# ACR-RK-100 – Technical Specifications – Rental Drycooler

Drycooler/  
Cooling Towers

60



## Quick overview

Process Temperature	Ambient Temperature	Sound Level
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## Optionally accessories

Cold Water Tubes



Ext. Pump Module



Heat Exchanger



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

## Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>120</b>
Power input	kW	1,9
Voltage	V/Hz/Ph	400/50/3
Operating current	A	3,75
Electrical connection	Cable terminals	3 Ph + PE
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
max. Flow rate	m <sup>3</sup> /h	13
Max. operating pressure	bar	6
Pressure drop	kPa	4
Cold water connections	Storz	B
Capacity control	Stepless	0-100%
Sound pressure at 5m	dB(A)	51
Transport weight	kg	320
Dimensions (l x w x h)	mm	4300x1100x1400

\* Design conditions: Cooling water temperatures 42/34°, Ambient temperature 20°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

## Technical description:

Air-cooled table cooler consisting of axial fans, and a heat exchanger in Cu/aluminium. The unit is used for cooling of excess, process or condenser heat. The air inlet is from bottom and the heated air is blown upward. This design insures an optimum as well as economical heat exchange. Due to the closed cooling circuit its contamination is impossible. Solid construction with attached control cabinet. Extensive optional accessories are available.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-RK-200 – Technical Specifications – Rental Drycooler



### Quick overview

Process Temperature    Ambient Temperature    Sound Level



### Optionally accessories

Cold Water Tubes



Ext. Pump Module



Heat Exchanger



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	186
Power input	kW	5,88
Voltage	V/Hz/Ph	400/50/3
Operating current	A	9,6
Electrical connection	Socket	CEE16A
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Flow rate	m <sup>3</sup> /h	34,6
Max. operating pressure	bar	10
Pressure drop	kPa	34,6
Cold water connections	Storz	B
Capacity control	Stepless	0-100%
Sound pressure at 5m	dB(A)	59
Transport weight	kg	2000
Dimensions (l x w x h)	mm	6000x2300x1600

\* Design conditions: Cooling water temperatures 45°/40°, Ambient temperature 35°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air-cooled table cooler consisting of axial fans, and a heat exchanger in Cu/aluminium. The unit is used for cooling of excess, process or condenser heat. The air inlet is from bottom and the heated air is blown upward. This design insures an optimum as well as economical heat exchange. Due to the closed cooling circuit its contamination is impossible. Solid construction with attached control cabinet. Extensive optional accessories are available.

Drycooler/  
Cooling Towers

61



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

# ACR-RK-300 – Technical Specifications – Rental Drycooler

## Quick overview

Process Temperature    Ambient Temperature    Sound Level



## Optionally accessories

Cold Water Tubes



Ext. Pump Module



Heat Exchanger



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!



## Technical specifications:

*Cooling capacity	kW	300
Power input	kW	12,6
Voltage	V/Hz/Ph	400/50/3
Operating current	A	19,2
Electrical connection	Socket	CEE32A
** Fuse protection	A	32
** Cable recommendation	mm <sup>2</sup>	6
Flow rate	m <sup>3</sup> /h	55,8
Max. operating pressure	bar	10
Pressure drop	kPa	36
Cold water connections	Storz	A
Capacity control	Stepless	0-100%
Sound pressure at 5m	dB(A)	63
Transport weight	kg	3500
Dimensions (l x w x h)	mm	5400x2400x2500

\* Design conditions: Cooling water temperatures 45°/40°, Ambient temperature 35°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

## Technical description:

Air-cooled drycooler consisting of axial fans, and a heat exchanger in Cu/aluminium. The unit is used for cooling of excess, process or condenser heat. The air inlet is from the side and the heated air is blown upward. This design insures an optimum as well as economical heat exchange. Due to the closed cooling circuit its contamination is impossible. Solid construction with attached control cabinet. Extensive optional accessories are available.



## COOLING TOWER

A stable and corrosion-resistant **open evaporation cooler** designed for outdoor installation with reliable and quiet running radial fans. The unit is used for cooling of excess, process or condenser heat. The **acr wetcoolers** can be used for water-cooled liquid chillers as a free cooling unit, or for direct cooling of fluids between plus 60°C and plus 6°C. Due to the surrounding air and evaporating water, cool water temperatures are reached, which are well below the air temperature. The units have as an option an integrated control cabinet. A temperature sensor on the medium-outlet side regulates the medium temperature. At higher temperatures, and for special material requirements, these coolers can be combined with acr plate heat exchangers for system separation.

The acr **wetcoolers** can be used for cooling of existing or rental water-cooled liquid chillers. Another application is the direct cooling of liquids by means of ambient air as a free cooling unit. By way of its modular design, the capacity can be increased by concatenation of multiple devices. The areas of application are manifold: For example, the units are used in building air-conditioning, production processes, test setups, medical technology, pharmaceuticals, food processing, beverage industry, chemical industry, plastics industry, and in many other areas.

**The installation and integration is very simple:** The compact high capacity mobile wetcoolers in the acr rental park have been designed for outdoor installation and can be installed on any viable ground. After connecting the pre-configured flexible hoses and the power cabling the cooler can go into operation.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-KT-1650 – Technical Specifications – Rental cooling tower



### Quick overview

Process Temperature    Ambient Temperature    Sound Level



### Optionally accessories

Cold Water Tubes

Ext. Pump Module

Electrical Cables

Remote Monitoring



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>1650</b>
Capacity control	Stepless	
Power input	kW	30
Voltage	V/Hz/Ph	400/50/3
Operating current	A	55
Electrical connection	Socket	CEE63A
** Fuse protection	A	63A
** Cable recommendation	mm <sup>2</sup>	16
Flow rate	m <sup>3</sup> /h	179,0
Volume of evaporated water	m <sup>3</sup> /h	2,46
Needed pressure at nozzles	bar	0,41
Water inlet	Flange	DN125 / PN16
Water outlet	Flange	DN200 / PN10
Rinse water amount	Zoll	½
Overflow	Zoll	2
Drain	Zoll	2
Replenishment	Zoll	¾
Sound power (DIN ISO 3744)	dB(A)	76
Transport weight (Cooling Tower)	kg	3000
Transport weight (Silencer)	kg	600
Transport weight (Frame)	kg	1500
Transport weight (Total)	kg	5100
Dimensions (incl. silencer)	mm (l×w×h)	7850x2045x4517

\* Design conditions: Cooling water temperatures 36/28°, ambient / wet-bulb temperature 21°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Open evaporation cooler with induced draft radial fans. The unit is used for cooling of excess, process or condenser heat. Air intake is at the front, and air exhaust is above. The cooling tower is executed in a modular design and can be extended by several equipment modules. For example, 2 modules = 3300kW cooling capacity. Extensive optional accessories are available. Please speak to us!





# AIR-CONDITIONING



PORTABLE AIR-CONDITIONERS

**PAGE 67**



ROOFTOP / VENTILATION SYSTEMS

**PAGE 73**



AIR COOLERS

**PAGE 77**



AIR HANDLING UNITS

**PAGE 87**



CLOSE CONTROL AIR-CONDITIONING UNITS

**PAGE 93**





## PORTABLE AIR-CONDITIONERS

Cooling and dehumidification through a **mobile air-conditioner** in a highly comfortable way: When rooms are very hot and rigorous cooling is required, then the strengths of these air conditioners become fully apparent. According to the capacity requirements, the mobile air-conditioner is as a compact air tube climate device or available as a water impinged Split design. The Split air conditioner expressly produced by acr ideally are suited for the offices, Event- or server air-conditioning. The especially quiet interior unit as well as a cooling capacity of up to 9kW per unit are here an exclusive feature of acr.

The **acr air conditioning / dehumidifying** units can be applied in all areas where air is to be cooled or dehumidified. The areas of application are manifold: For example, the units are used in offices, sales and computer rooms, doctors' offices, museums, galleries, exhibitions and in many other areas. The installation and integration is very simple: The compact high capacity mobile air conditioners in the acr rental park have been designed for installation in dry and frost-free locations and can be installed on any viable ground. After connecting the power cabling the air conditioner can go into operation.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-KLS-4/5 – Technical Specifications – Portable Air-Conditioner



### Quick overview

Rotation  
Compressor

Refrigerant



Air Hose

Cooling  
Temperature

+15°C bis +25°C

Sound  
Level

low noise

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>3,7</b>	<b>5,2</b>
Power input	kW	1,5	2,0
Voltage	V/Hz/Ph	230/50/1	
Operating current	A	7	9,3
Electrical connection	Schuko Socket		
** Fuse protection	A	10	
** Cable recommendation	mm <sup>2</sup>	2,5	
Air circulation	m <sup>3</sup> /h	472	680
Dehumidifying capacity	l/h	1,9	2,2
Length exhaust hose	m	1,25	1,5
Diameter exhaust hose	mm	140	160
Refrigerant	R	410	290
Sound pressure at 1m	dB(A)	56	55
Transport weight	kg	36	
Dimensions (l x w x h)	mm	490x380x790	

\* Design conditions: Room temperature 26°C, 55% relative humidity, Ambient temperature 30°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Mobile air conditioner for immediate use. If it is too warm in your office, server room or meeting room, this acr air conditioner will soon provide the perfect climate. The unit is suitable for rooms up to a volume of 170m<sup>3</sup>. The waste heat is discharged through an exhaust air hose out of the window or through a wall duct. Any condensation is collected in an integrated container and can also be fed into an external vessel if necessary.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-SPLIT-7 – Technical Specifications – Portable Split – Air-Conditioning Unit



### Quick overview

Rotation Compressor	Refrigerant	Cooling Temperature	Integrated Pump	Sound Level
	 R410A	 +15°C bis +25°C		 low noise

### Optionally accessories

Hose Package	Extension Cable

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>6,7</b>
Power input	kW	2,6
Voltage	V/Hz/Ph	230/50/1
Operating current	A	12
Electrical connection	Socket	230V
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Control air flow volume	stage	1-2-3
Operating medium	Ethylene glycol	30%
Refrigerant	R	410a
Sound pressure outdoor unit at 3 m	dB(A)	52
Sound pressure indoor unit at 3 m	dB(A)	47-59
Weight outdoor unit	kg	16,5
Weight indoor unit	kg	86
Weight transport box	kg	150
Outer dimensions (l x w x h)	mm	650 x 460 x 320
Inner dimensions (l x w x h)	mm	820 x 360 x 1020
Dimensions transport box (l x w x h)	mm	1200 x 800 x 1380

\* Design conditions: Room temperature 26°C, 55% relative humidity, Ambient temperature 30°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The ACR-SPLIT-7 is a mobile split air-conditioning unit designed primarily for immediate, temporary cooling. No specialist knowledge is required for installation. The unit fits through narrow doors and in lifts. Mobile cooling is available within a few minutes. The standard system consists of an indoor unit, outdoor unit and a set of hoses. The hoses are pre-filled with an ethylene glycol mixture and are available in 10m lengths that can be combined up to a maximum single length of 30m. The hose package includes quick couplings, a condensate hose and mains connection to the outdoor unit in a protective jacket. The maximum height difference is approx. 10m.



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\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-SPLIT-15 – Technical Specifications – Portable Split – Air-Conditioning Unit



### Quick overview

Rotation  
Compressor

Refrigerant

Cooling  
TemperatureIntegrated  
PumpSound  
Level

### Optionally accessories

Hose  
PackageExtension  
Cable

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>15</b>
Power input	kW	5,7
Voltage	V/Hz/ Ph	400/50/3
Operating current	A	8,7
Electrical connection	Socket	CEE 16A
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Control air flow volume	stage	1-2-3
Operating medium	Ethylene glycol	30%
Refrigerant	R	410a
Sound pressure outdoor unit at 3 m	dB(A)	52
Sound pressure indoor unit at 3 m	dB(A)	51-65
Weight outdoor unit	kg	35
Weight indoor unit	kg	140
Weight transport box	kg	250
Outer dimensions (l x w x h)	mm	930x900x640
Inner dimensions (l x w x h)	mm	1080x420x1520
Dimensions transport box (l x w x h)	mm	1500x1000x1850

\* Design conditions: Room temperature 26°C, 55% relative humidity, Ambient temperature 30°C

\*\* On-site power installation should be entrusted to an electrical specialist.

### Technical description:

The ACR-SPLIT-15 is a mobile split air-conditioning unit designed primarily for immediate, temporary cooling operation. No specialist knowledge is required for installation. The unit fits through narrow doors and in lifts. Mobile cooling is available within a few minutes. The standard system consists of an indoor unit, outdoor unit and a set of hoses. The hoses are pre-filled with an ethylene glycol mixture and are available in 10m lengths that can be combined up to a maximum single length of 30m. The hose package includes quick couplings, a condensate hose and mains connection to the outdoor unit in a protective jacket. The maximum height difference is approx. 10m.



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\*Toll-free calls throughout Germany



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## ACR-SPOTCOOLER-7 – Technical Specifications – Portable Air-Conditioning Unit



### Quick overview

Rotation  
Compressor



Refrigerant



Cooling  
Temperature



Ambient  
Temperature



Integrated  
Pump



### Optionally accessories

Air Hose



Extension  
Cable



Different requirements and applications can be provided on request!

### Technical specifications:

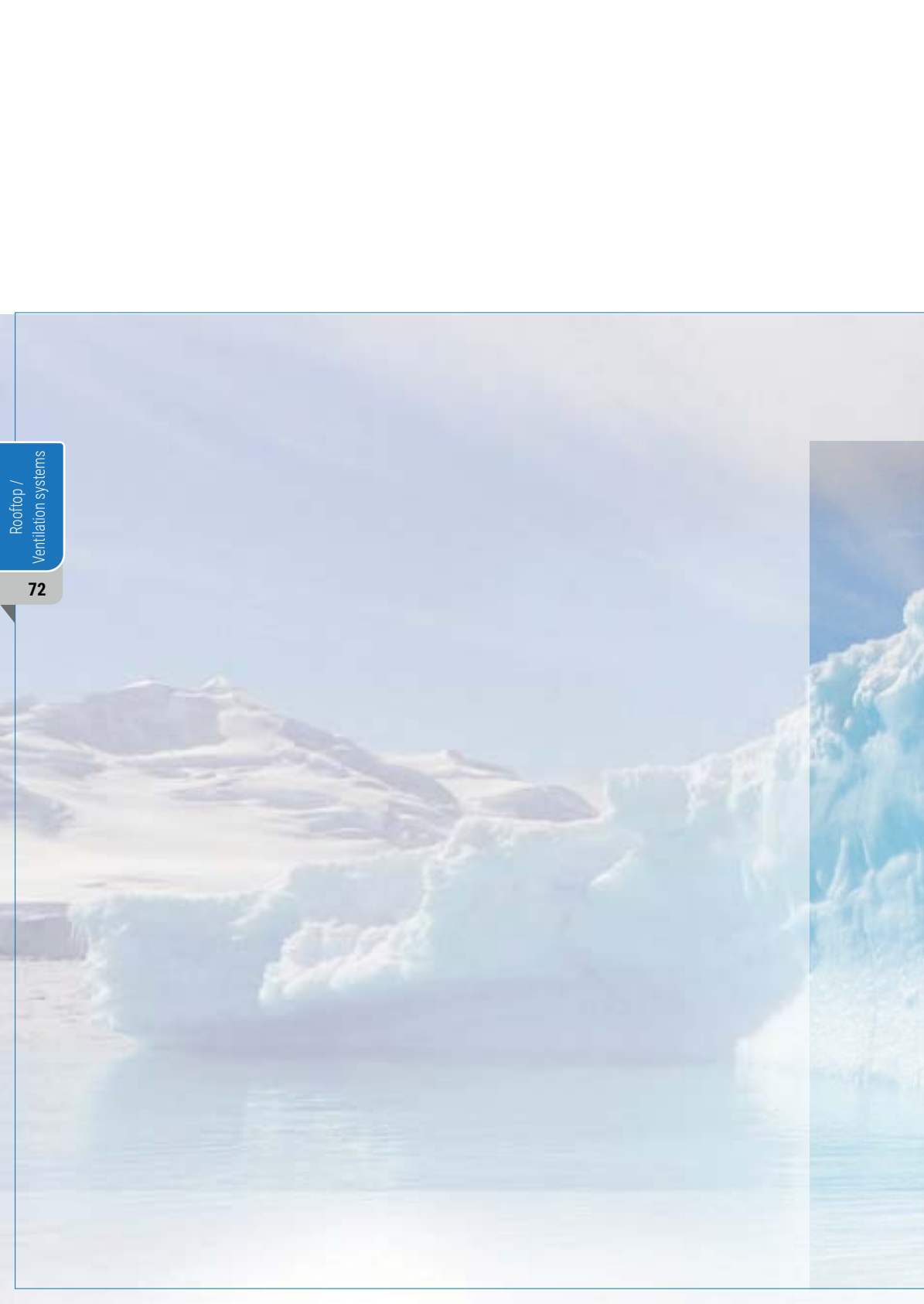
*Cooling capacity	kW	7
Power input	kW	2,1
Voltage	V/Hz/Ph	230/50/1
Operating current	A	13
Electrical connection	Socket	230V
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Control air flow volume	stage	1-2-3
Air flow volume	m <sup>3</sup> /h	800-1020
Refrigerant	R	1234YF
Sound pressure at 3 m	dB(A)	55
Condensate container	l	20
Weight	kg	85
Dimensions (l x w x h)	mm	500x620x1250

\* Design conditions: Room temperature 26°C, 55% relative humidity, Ambient temperature 30°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

The ACR-SPOTCOOLER is a mobile air-conditioning unit that directs the cooled air through the flexible hoses to the area that requires temperature control. The unit is particularly suitable for spot cooling in production processes, server air conditioning, factory halls, etc. No specialist knowledge is required for installation. The unit fits through narrow doors and in lifts. Mobile cooling is available within a few minutes.







## ROOFTOP / VENTILATION SYSTEMS

Always produce the desired room temperature between plus 15°C and 25°C: The units are designed for outdoor operation and can be immediately operational, cool the air directly without an intervening medium. The air is distributed by means of powerful centrifugal fans. The condenser waste heat is discharged by means of an axial ventilator to the ambient air. Optionally, the units can be used as cooling or heating heat pumps in fresh, mixed and recirculation modes.

The **acr air handling units** can be used in all areas where it is necessary to ensure that the correct temperature is maintained. The areas of application are manifold: For example, the units are used for events, tent air-conditioning, computer and data centers, food processing, beverage industry, production processes, test setups, environmental simulations, automotive industry, medical technology, pharmaceuticals, chemical industry, and in many other areas.

The installation and integration is very simple: The mobile air handling units in the acr rental park are designed for outdoor installation and can be installed on any viable ground. After connecting the pre-configured flexible air hoses and the power cabling the mobile air handling unit can go into operation.



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## ACR-RT-60 – Technical Specifications – Rental Rooftop Unit



### Quick overview

Scroll  
Compressor

Refrigerant

Cooling  
TemperatureHeating  
TemperatureAmbient  
Temperature

### Optionally accessories

Air  
TransportAir  
DistributionElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	56
**Heating capacity	kW	67
Power input cooling	kW	26
Power input heating	kW	26
Operating current – cooling	A	52
Operating current – heating	A	51
Electrical connection	Socket	CEE63A
*** Fuse protection	A	63
*** Cable recommendation	mm <sup>2</sup>	16
Air flow volume	m <sup>3</sup> /h	11400
External static pressure	Pa	196
Capacity control	Steps	2
Refrigerant circuits	No.	2
Refrigerant	–	R407C
Sound pressure at 5 m	dB(A)	62
Transport weight	kg	1000
Dimensions (l x w x h)	mm	2200x2100x1450

\* Design conditions:

\* Cooling mode: Ambient temp. 35 °C ; Room temp. 27°C

\*\* Heating mode: Ambient temp. 7 °C ; Room temp. 21°C

\*\*\*On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Compact corrosion resistant Rooftop / ventilation unit for outdoor locations. The unit is able to cool as well as heat using the integrated heat pump. Through the simple installation steps of – unloading, attaching air hoses, and attaching electrical power – you will have comfortable temperatures in the shortest possible time. Extensive optional accessories are available.



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\*Toll-free calls throughout Germany



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## ACR-RT-80 – Technical Specifications – Rental Rooftop Unit



### Quick overview

Scroll  
Compressor

Refrigerant

Cooling  
TemperatureHeating  
TemperatureAmbient  
Temperature

### Optionally accessories

Air  
TransportAir  
DistributionElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	80
**Heating capacity	kW	72
Power input cooling	kW	23
Power input heating	kW	22
Operating current – cooling	A	58
Operating current – heating	A	58
Electrical connection	Socket	CEE63A
*** Fuse protection	A	63
*** Cable recommendation	mm <sup>2</sup>	16
Air flow volume	m <sup>3</sup> /h	14100
External static pressure	Pa	206
Capacity control	Steps	2
Refrigerant circuits	No.	2
Refrigerant	–	R410A
Sound pressure at 5 m	dB(A)	62
Transport weight	kg	1600
Dimensions (l x w x h)	mm	3230x2360x1840

\* Design conditions:

\* Cooling mode: Ambient temp. 35 °C ; Room temp. 27°C

\*\* Heating mode: Ambient temp. 7 °C ; Room temp. 21°C

\*\*\*On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Compact corrosion resistant Rooftop / ventilation unit for outdoor locations. The unit is able to cool as well as heat using the integrated heat pump. Through the simple installation steps of – unloading, attaching air hoses, and attaching electrical power – you will have comfortable temperatures in the shortest possible time. Extensive optional accessories are available.





## AIR COOLERS

The air cooler unit can be operated with a acr rental liquid chiller or can be connected to the existing chilled water system. Depending on the requirements the air cooler unit can be equipped with an elegant housing. The cooler has an integrated control unit and a drain pan under the heat exchanger so that the condensate can be selectively discharged when dehumidifying. Thanks to their compact size and light weight, the rental units can be easily transported and can be targeted to those situations where cooling is required.

The **acr air cooler units** can be applied in all areas where air is to be cooled or heated. The areas of application are manifold: For example, the units are used in building air-conditioning, event and tent cooling, production processes, test setups, medical technology, pharmaceuticals, food processing, beverage industry, chemical industry, plastics industry, and in many other areas.

The installation and integration is very simple! The compact high capacity mobile air cooler units in the acr rental park have been designed for dry locations and can be installed in ceilings as well as on the ground. After connecting the pre-configured flexible hoses and the power cabling the air cooler unit can go into operation.



## ACR-F-9 – Technical Specifications – Rental Fan Coil



### Optionally accessories

Chiller



Heating Unit



Water Tubes



Ext. Pump Module



Electrical Cables



Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	10
**Heating capacity	kW	11
Power input	kW	0,23
Voltage	V/Hz/Ph	230/50/1
Operating current	A	1,8
Electrical connection	Socket	230V
*** Fuse protection	A	6
*** Cable recommendation	mm <sup>2</sup>	1,5
Flow rate	m <sup>3</sup> /h	1,74
Max. operating pressure	bar	6
Pressure drop	kPa	13
Cold water connections	Geka	
Air flow volume	m <sup>3</sup> /h	1720
Sound pressure at 5m	dB(A)	38
Transport weight	kg	42
Dimensions (l x w x h)	mm	1690x275x660

\* Design conditions cold water temperatures 12/7°, Ambient temperature 27°C / 19,5 W.B.

\*\* Design conditions hot water temperatures 70°/60°, Ambient temperature 20°C D.B.

\*\*\*On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Fan coil unit with radial ventilator for installation to the external cold water network or acr cold water producer. Installation indoors and a housing out of varnished sheet metal, and a sound isolated interior. Heat exchangers of Cu pipe with pressed aluminium fins. A condensate pan with a natural discharge flow is located under the heat exchanger. An air filter is attached to the air intake. All controls including 3 pre-selected fan speeds are integrated into the housing and are easy to use. Extensive optional accessories are available.



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## ACR-F-20 – Technical Specifications – Rental Air Cooler



### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>19</b>
Sensible Cooling capacity	kW	14
<b>**Heating capacity</b>	<b>kW</b>	<b>37</b>
Power input	kW	0,3
Voltage	V/Hz/Ph	230/50/1
Operating current	A	3,6
Electrical connection	Socket	230V
*** Fuse protection	A	16
*** Cable recommendation	mm <sup>2</sup>	2,5
Air flow volume	m <sup>3</sup> /h	2800
External static pressure	Pa	90
Cold water connections	Storz	C
Condensate water connections	Geka	¾ Zoll
Capacity control	Steps	3
Sound pressure at 1m	dB(A)	49
Transport weight	kg	169
Dimensions with air-distribution (l x w x h)	mm	900x780x2230
Dimensions without air-distribution (l x w x h)	mm	900x780x1870

\* Design conditions cold water temperatures 12/7°, Ambient temperature 27°C / 19,5 W.B.

\*\* Design conditions hot water temperatures 50/40°, Ambient temperature 20°C D.B.

\*\*\*On-Site power installation should be entrusted to an electrical specialist.

### Optionally accessories

Chiller



Temperature Control



Water Tubes



Electrical Cables



Air Transport



Different requirements and applications can be provided on request!

### Technical description:

Air cooler unit with radial ventilator for installation to the external cold water network or acr cold water producer. Installation indoors and a housing out of varnished sheet metal, and a sound isolated interior. Heat exchangers of Cu pipe with pressed aluminium fins. A condensate pan with a natural discharge flow is located under the heat exchanger. An air filter is attached to the air intake. All controls including 3 pre-selected fan speeds are integrated into the housing and are easy to use. Extensive optional accessories are available.



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\*Toll-free calls throughout Germany

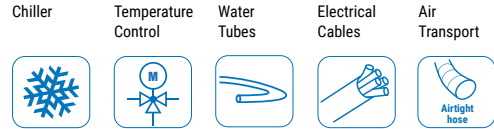


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## ACR-F-40 – Technical Specifications – Rental Air Cooler



### Optionally accessories



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>40</b>
Sensible Cooling capacity	kW	30
<b>**Heating capacity</b>	<b>kW</b>	<b>47</b>
Power input	kW	1,1
Voltage	V/Hz/Ph	400/50/3
Operating current	A	2,7
Electrical connection	Socket	CEE 16A
*** Fuse protection	A	16
*** Cable recommendation	mm <sup>2</sup>	2,5
Air flow volume	m <sup>3</sup> /h	6800
External static pressure	Pa	150
Cold water connections	Storz	C
Capacity control	Steps	0/1
Sound pressure at 1m	dB(A)	50
Transport weight	kg	400
Dimensions (l x w x h)	mm	1780x1600x1100

\* Design conditions cold water temperatures 12/7°, Ambient temperature 27°C / 19,5 W.B.

\*\* Design conditions hot water temperatures 50/40°, Ambient temperature 20°C D.B.

\*\*\*On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooler unit with radial ventilator for installation to the external cold water network or acr cold water producer. Installation indoors and suitable for connection to the air ducts or textile air tubes. A condensate water connection is present. Extensive optional accessories are available.





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## ACR-F-50 – Technical Specifications – Rental Air Cooler



### Optionally accessories

Chiller



Temperature Control



Water Tubes



Electrical Cables



Air Transport



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>51</b>
Sensible Cooling capacity	kW	36
<b>**Heating capacity</b>	<b>kW</b>	<b>59</b>
Power input	kW	1,3
Voltage	V/Hz/Ph	400/50/3
Operating current	A	3,1
Electrical connection	Socket	CEE 16A
<b>** Fuse protection</b>	<b>A</b>	<b>16</b>
<b>** Cable recommendation</b>	<b>mm<sup>2</sup></b>	<b>2,5</b>
Air flow volume	m <sup>3</sup> /h	7330
External static pressure	Pa	365
Air connection	mm	425
Cold water connections	Storz	C
Capacity control	Steps	0/1
Sound pressure at 1m	dB(A)	62
Transport weight	kg	250
Dimensions (l x w x h)	mm	2210x1100x1110

\* Design conditions cold water temperatures 12/7°, Ambient temperature 27°C / 19,5 W.B.

\*\* Design conditions hot water temperatures 50/43°, Ambient temperature 20°C D.B.

\*\*\*On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air cooler unit with radial ventilator for installation to the external cold water network or acr cold water producer. Installation indoors and suitable for connection to the air ducts or textile air tubes. A condensate water connection is present. Extensive optional accessories are available.



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## ACR-FT-25 – Technical Specifications – Rental Air Cooler LT



### Quick overview

Wide Throwing  
NozzleVariable  
Speed ControlTemperature  
ControlDefrost  
Heating

### Optionally accessories

Chiller

Heating  
UnitWater  
TubesExt. Pump  
ModuleElectrical  
Cables

Different requirements and applications can be provided on request!

### Technical specifications:

*Cooling capacity	kW	20
Power input	kW	1,85 + 12,5 Defrost
Voltage	V/Hz/Ph	400/50/3
Operating current	A	3,1 + 16A Defrost
Electrical connection	Socket	CEE 2x16A
** Fuse protection	A	2 x 16A
** Cable recommendation	mm <sup>2</sup>	2 x 2,5
Medium Flow rate	m <sup>3</sup> /h	3,8
Max. operating pressure	bar	6
Pressure drop	kPa	18
Cold water connections	Storz	C
Air flow volume	m <sup>3</sup> /h	14420
Air throw	m	36
Capacity control	%	0-100 (3-way valve)
Sound pressure at 5m	dB(A)	57
Transport weight	kg	460
Operating weight	kg	500
Dimensions (l x w x h)	mm	2000x1520x1410

\* Design conditions cold brine temperatures -5/0°,  
Room temperature 4°C

\*\* On-Site power installation should be entrusted to an  
electrical specialist.

### Technical description:

Air cooler unit for low temperature application with EC ventilator for indoor installation to the external cold water network or acr cold water producer.

A 3-way thermostatic valve, temperature sensor, automatic defrost function and a condensate water connection is present. A small control box is included, which assumes control of the valve and allows the unit to be switched on and off. A potential-free collective fault alert can be accessed. Extensive optional accessories are available.



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\*Toll-free calls throughout Germany



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## ACR-FW-53 – Technical Specifications – Rental Air Cooler with Wide Throwing Nozzle



### Quick overview

Wide Throwing Nozzle



### Optionally accessories

Chiller



Temperature Control



Water Tubes



Ext. Pump Module



Electrical Cables



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>53</b>
Power input	kW	1,1
Voltage	V/Hz/Ph	400/50/3
Operating current	A	2,2
Electrical connection	CEE	16A
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Medium Flow rate	m <sup>3</sup> /h	7,6
Max. operating pressure	bar	6
Pressure drop	kPa	115
Cold water connections	Storz	C
Air flow volume	m <sup>3</sup> /h	10300
Air throw	m	46
Capacity control	Steps	0/1
Sound pressure at 5m	dB(A)	48
Transport weight	kg	250
Dimensions (l x w x h)	mm	2300x1200x1600

\* Design conditions cold water temperatures 12/6°, Ambient temperature 25°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

High performance wide throwing nozzle air handler for connecting with the existing chilled water system or an acr chiller. Installation in storage- or production halls, where it is necessary to cover large areas with a minimum of air handling units. Extensive optional accessories are available.



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\*Toll-free calls throughout Germany



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## ACR-FW-72 – Technical Specifications – Rental Air Cooler with Wide Throwing Nozzle



### Quick overview

Wide Throwing Nozzle Variable Speed Control



### Optionally accessories

Chiller

Temperature Control

Water Tubes

Ext. Pump Module

Electrical Cables



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>72</b>
Power input	kW	3,4
Voltage	V/Hz/Ph	400/50/3
Operating current	A	5,2
Electrical connection	Socket	CEE 16A
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Medium Flow rate	m <sup>3</sup> /h	10,29
Max. operating pressure	bar	6
Pressure drop	kPa	41
Cold water connections	Storz	C
Air flow volume	m <sup>3</sup> /h	29600
Air throw	m	60
Capacity control	%	0-100
Sound pressure at 10m	dB(A)	55
Transport weight	kg	380
Dimensions (l x w x h)	mm	2300x1100x1400

\* Design conditions cold water temperatures 6°/12°, Ambient temperature 25°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

High performance wide throwing nozzle air handler for connecting with the existing chilled water system or an acr chiller. Installation in storage- or production halls, where it is necessary to cover large areas with a minimum of air handling units. Extensive optional accessories are available.



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\*Toll-free calls throughout Germany



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## ACR-FW-256 – Technical Specifications – Rental Air Cooler with Wide Throwing Nozzle



### Quick overview

Wide Throwing  
Nozzle



### Optionally accessories

Chiller

Temperature  
ControlWater  
TubesExt. Pump  
ModuleElectrical  
Cables

Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Cooling capacity</b>	<b>kW</b>	<b>256</b>
Power input	kW	7,6
Voltage	V/Hz/Ph	400/50/3
Operating current	A	12,8
Electrical connection	Socket	CEE 16A
** Fuse protection	A	16
** Cable recommendation	mm <sup>2</sup>	2,5
Medium Flow rate	m <sup>3</sup> /h	36,6
Max. operating pressure	bar	6
Pressure drop	kPa	132
Cold water connections	Storz	B
Air flow volume	m <sup>3</sup> /h	64400
Air throw	m	54
Capacity control	Steps	0/1
Sound pressure at 5m	dB(A)	68
Transport weight	kg	800
Dimensions (l x w x h)	mm	4700x1300x1650

\* Design conditions cold water temperatures 6°/12°, Ambient temperature 25°C

\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

High performance wide throwing nozzle air handler for connecting with the existing chilled water system or an acr chiller. Installation in storage- or production halls, where it is necessary to cover large areas with a minimum of air handling units. Extensive optional accessories are available.





## VENTILATION UNITS / AIR HANDLERS

Mobile **acr-ventilation units/air handlers** are used wherever halls or buildings need to be supplied with fresh air. The power range extends from 25 to 150kW cooling capacity per unit. The systems can be connected to the existing cold / hot water network or to an acr rental chiller / heat pump as an option. The air volume flow can be regulated variably, and the high external pressure means that longer air distribution paths can be covered by means of flexible air hoses. The unit is installed outdoors for fresh air supply or indoors in recirculation mode. An integrated filter chamber ensures high-quality air filtration.

There are numerous areas of application. The units are used for temperature control in warehouses, production halls and workshops, for example, at events and in many other areas.



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## ACR-AH-50 – Technical Specifications – Rental Close Control Air-Conditioning Unit



### Quick overview

Variable Speed Control    Filter Chamber    Condensate Drain



### Optionally accessories

Chiller

Heating Unit

Water Tubes

Electrical Cables

Air Transport



Different requirements and applications can be provided on request!

### Technical specifications:

Cooling capacity	kW	50
Max. air flow volume	m <sup>3</sup> / h	4500
Cold water temperatures	°C	6/12
Air inlet	°C / r.F.	32°C / 40% r.F.
Air outlet	°C	13°C
Heating capacity	kW	97
Hot water temperatures	°C	70/50
Water connections	Storz	C
Filter class	-	M5
External static pressure	Pa	300
Total static pressure	Pa	537
* Voltage / Electrical Connection	V/Hz/Ph	230/50/1 (Socket)
Operating current	A	8
Sound power	dB (A)	80
Dimensions (l x w x h)	mm	1380 x 780 x 2230
Weight	kg	350

\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

4,500 m<sup>3</sup> / h ventilation unit with EC fan, infinitely variable speed regulation and pressure up to 500 Pa. Particularly suitable for cooling storage rooms, event air conditioning, machine cooling, server rooms and production areas. Can also be used for heating warehouses, construction heating, etc., in conjunction with a mobile heating unit. Air distribution by means of air outlet box in 4 directions or with flexible 525 mm air hoses. Extensive accessories are available as options.





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\*Toll-free calls throughout Germany

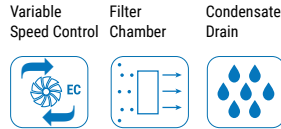


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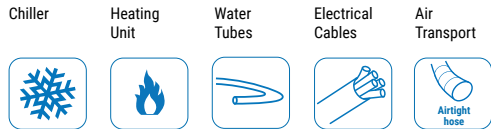
## ACR-AH-70 – Technical Specifications – Rental Close Control Air-Conditioning Unit



### Quick overview



### Optionally accessories



Different requirements and applications can be provided on request!

### Technical specifications:

Cooling capacity	kW	70
Max. air flow volume	m <sup>3</sup> / h	7000
Cold water temperatures	°C	6/12
Air inlet	°C / r.F.	32°C / 40% r.F.
Air outlet	°C	13°C
Heating capacity	kW	150
Hot water temperatures	°C	70/50
Water connections	Storz	B
Filter class	-	M5
External static pressure	Pa	500
Total static pressure	Pa	1200
* Voltage / Electrical Connection	V/Hz/Ph	400/50/3 (CEE 16A)
Operating current	A	7,0
Sound power	dB (A)	93
Dimensions (l x w x h)	mm	1300 x 790 x 2220
Weight	kg	250

\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

7,000 m<sup>3</sup> / h ventilation unit with EC fan, infinitely variable speed regulation and pressure up to 500 Pa. Particularly suitable for cooling storage rooms, event air conditioning, machine cooling, server rooms and production areas. Can also be used for heating warehouses, construction heating, etc., in conjunction with a mobile heating unit. Air distribution by means of air outlet box in 4 directions or with flexible 525 mm air hoses. Extensive accessories are available as options.



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\*Toll-free calls throughout Germany

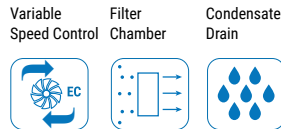


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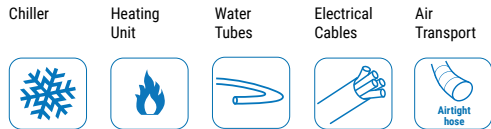
# ACR-AH-100 – Technical Specifications – Rental Airhandling Unit



## Quick overview



## Optionally accessories



Different requirements and applications can be provided on request!

## Technical specifications:

Cooling capacity	kW	100
Max. air flow volume	m <sup>3</sup> / h	10000
Cold water temperatures	°C	6/ 12
Air inlet	°C / r.F.	32°C / 40% r.F.
Air outlet	°C	18°C
Heating capacity	kW	200
Hot water temperatures	°C	90/70
Water connections	Storz	B
Filter class	-	M5
External static pressure	Pa	600
Total static pressure	Pa	1200
* Voltage / Electrical Connection	V/Hz/Ph	400/50/3 (CEE 16A)
Operating current	A	9
Sound power	dB (A)	90
Dimensions (l x w x h)	mm	2550 x 1230 x 1480
Weight	kg	600

\* On-Site power installation should be entrusted to an electrical specialist.

## Technical description:

10,000 m<sup>3</sup> / h ventilation unit with EC fan, infinitely variable speed regulation and pressure up to 600 Pa. Particularly suitable for cooling storage rooms, event air conditioning, machine cooling, server rooms and production areas. Can also be used for heating warehouses, construction heating, etc., in conjunction with a mobile heating unit. Air distribution by means of 2x525 mm flexible air hoses. Extensive accessories are available as options.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany

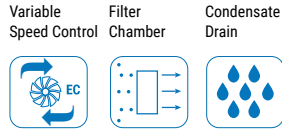


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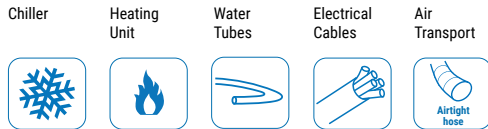
## ACR-AH-150 – Technical Specifications – Rental Airhandling Unit



### Quick overview



### Optionally accessories



Different requirements and applications can be provided on request!

### Technical specifications:

Cooling capacity	kW	150
Max. air flow volume	m <sup>3</sup> / h	20000
Cold water temperatures	°C	6/ 12
Air inlet	°C / r.F.	32°C / 40% r.F.
Air outlet	°C	18°C
Heating capacity	kW	350
Hot water temperatures	°C	70/50
Water connections	Storz	B
Filter class	-	M5
External static pressure	Pa	650
Total static pressure	Pa	1200
* Voltage / Electrical Connection	V/Hz/Ph	400/50/3 (CEE 32A)
Operating current	A	17,2
Sound power	dB (A)	97
Dimensions (l x w x h)	mm	2610 x 1230 x 1850
Weight	kg	1000

\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

20,000 m<sup>3</sup> / h ventilation unit with EC fan, infinitely variable speed regulation and pressure up to 650 Pa. Particularly suitable for cooling storage rooms, event air conditioning, machine cooling, server rooms and production areas. Can also be used for heating warehouses, construction heating, etc., in conjunction with a mobile heating unit. Air distribution by means of 4x525 mm flexible air hoses. Extensive accessories are available as options.





## CLOSE CONTROL AIR-CONDITIONING UNITS

The space saving close control **air conditioning units** are used with an acr rental liquid chiller or can be connected to the existing chilled water system. The air conditioning cabinets are fitted with a stylish enclosure and are available with the air intake from the front and discharge to the top or air intake from the top and discharge to the false floor. Thanks to their compact size and light weight, the rental units can be easily transported and can be targeted to those situations where cooling is required.

The **acr air conditioning units** can be applied in all areas where air is to be cooled or heated. The areas of application are manifold: For example, the units are used in computer and data centers, food processing, beverage industry, production processes, test setups, environmental simulations, automotive industry, medical technology, pharmaceuticals, chemical industry, and in many other areas. The installation and integration is very simple! The compact high capacity **mobile air conditioning units in the acr rental park** have been designed for dry and frost-free locations. After connecting the pre-configured flexible hoses and the power cabling the air conditioning cabinets can go into operation.



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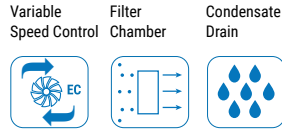


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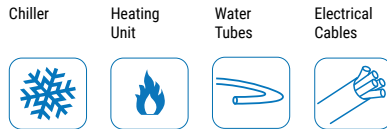
## ACR-KS-25 – Technical Specifications – Rental Close Control Air-Conditioning Unit



### Quick overview



### Optionally accessories



Different requirements and applications can be provided on request!

### Technical specifications:

Cooling capacity	kW	25
Max. air flow volume	m <sup>3</sup> / h	9000
Cold water temperatures	°C	6/ 12
Air inlet	°C / r.F.	26°C / 55% r.F.
Air outlet	°C	18°C
Filter class	-	G4
External static pressure	Pa	200
* Voltage / Electrical Connection	V/Hz/Ph	400/50/3 (CEE 16A)
Operating current	A	6
Sound pressure at 5m	db (A)	52
Dimensions (l x w x h)	mm	1310 x 780 x 1980
Weight	kg	370

\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Close control A/C unit for installation to the external cold water network or acr cold water producer.

Air conditioning cabinets pre-painted galvanized sheet metal with stainless steel screws. Interior lining material is heat resistant and soundproof. Centrifugal blower with direct drive, both sided intake, statically and dynamically balanced. Air filters are made of filter class EU4 recyclable synthetic material. The electrical control cabinet with its user-friendly control unit is integrated in the air conditioning cabinet. Extensive optional accessories are available, such as straight and three way valves, supply air plenum, high capacity fan motors, humidifiers and more.



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\*Toll-free calls throughout Germany



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## ACR-KS-41 – Technical Specifications – Rental Close Control Air-Conditioning Unit



### Quick overview

Fixed Speed



Filter Chamber



Condensate Drain



### Optionally accessories

Chiller



Heating Unit



Water Tubes



Electrical Cables



Different requirements and applications can be provided on request!

### Technical specifications:

Cooling capacity	kW	41
Max. air flow volume	m <sup>3</sup> / h	7200
Cold water temperatures	°C	7 / 12
Air inlet	°C / r.F.	27°C / 47% r.F.
Air outlet	°C	14°C
Heating capacity	kW	86
Hot water temperatures	°C	70/60
Water connections	Storz	C
Filter class	-	G4
External static pressure	Pa	174
* Voltage / Electrical Connection	V/Hz/Ph	400/50/3 (CEE 16A)
Operating current	A	3,3
Sound pressure at 5m	db (A)	49
Dimensions (l x w x h)	mm	1300 x 870 x 2220
Weight	kg	310

\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Close control A/C unit for installation to the external cold water network or acr cold water producer. Air conditioning cabinets pre-painted galvanized sheet metal with stainless steel screws. Interior lining material is heat resistant and soundproof. Centrifugal blower with direct drive, both sided intake, statically and dynamically balanced. Air filters are made of filter class EU4 recyclable synthetic material. The electrical control cabinet with its user-friendly control unit is integrated in the air conditioning cabinet. Extensive optional accessories are available, such as straight and three way valves, supply air plenum, high capacity fan motors, humidifiers and more.



**ENERGY**  
to go





# HEATING



## PORTABLE, ELECTRIC HEATING SYSTEMS

**PAGE 99**

Electric heating air

100

Electric heating water

101



## HEATPUMPS

**PAGE 103**

Air to air heat pumps

103

Air to water heat pumps / Water to water heat pumps

107



## HEATING SYSTEMS

**PAGE 113**





## MOBILE ELECTRIC HEATERS

The **efficient electric heaters** are used in all applications and in all areas, where fluids are to be heated. The areas of application are manifold. These devices come into action when a heating plant goes down, or is in maintenance, in order to prevent frost damage, during the installation of floor heating, to warm up the screed, or as emergency heating or also as a load bank for a chiller.



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## ACR-EHL-3 to 15 – Technical Specifications – Rental electric air heaters



### Quick overview

Electric Air Heater



Operating Range



### Optionally accessories

Electrical Cables



Different requirements and applications can be provided on request!

### Technical description:

Compact electric heater for warming up air. The heating capacity can be regulated through it three power steps. Therefore the units can be used for smaller as well as bigger rooms. In case of overheating the units switches off through its integrated thermostates.

### Technical specifications:

Heating capacity	kW	3	8	15
Heating stages 1/2/3/(4)	kW	0/1,7/3,3	0/4,5/9	0/5/10/15
Voltage	–	230V/ 50Hz	400V/ 50Hz	400V/ 50Hz
Operating current	A	14,4	13,0	21,7
** Fuse protection	A	16	16	32
** Cable recommendation	mm <sup>2</sup>	2,5 / Schuko Socket	2,5 / CEE16A Socket	6 / CEE 32A Socket
Air flow volume max.	m <sup>3</sup> /h	335	708	1293
Dimensions (l x w x h)	mm	265x255x395	283x355x515	332x405x540
Transport weight	kg	5,0	9,5	14,9

\* On-Site power installation should be entrusted to an electrical specialist.

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## ACR-EHW-9 to 36 – Technical Specifications – Rental electric water heaters



### Quick overview

Electric Air Heater



Operating Range



Integrated Pump



Warm Water Hose



Electrical Cables



Different requirements and applications can be provided on request!

### Technical description:

Mobile acr electric heaters with a heat capacity up to 36 kW. The device is connected with a CEE connector and is immediately ready for use. Through the operation with three phase current, no exhaust fumes emerge and therefore the heater can be set up directly inside the building. The standard equipment includes all required components, such as recirculating pump, expansion container, safety fittings as well as a temperature regulator. The heater is preassembled and mounted on a hand cart which can be setup or dismantled by one person. For all scopes such as heat emergencies, reconstruction works, research and development, a mobile acr electric heater can be quickly and simply rented.

### Technical specifications:

Heating capacity	kW	9	15	22	28	36
Capacity range	kW	4,2 to 8,4	7,2 to 14	14,4 to 21	21,6 to 28,8	30 to 36
*Electrical connection	–	16 A CEE	32 A CEE	32 A CEE	63 A CEE	63 A CEE
Degree of protection	–	IP 44/ F	IP 44/ F	IP 44/ F	IP 44/ F	IP 44/ F
Max. operating temperature	°C	85	85	85	85	85
Temperature range	°C	20-85	20-85	20-85	20-85	20-85
Tap water	–	Optional	Optional	Optional	Optional	Optional
Pump	–	Ja	Ja	Ja	Ja	Ja
Expansion tank	Liter	10	10	10	10	10
Safety valve heater	bar	3	3	3	3	3
Connection hoses	–	Geka-Plugs	Geka-Plugs	Geka-Plugs	Geka-Plugs	Geka-Plugs
Length	mm	600	600	600	600	600
Width	mm	560	560	560	560	560
Height	mm	1100	1100	1100	1100	1100
Weight (without water)	kg	60	60	60	60	60

\* On-Site power installation should be entrusted to an electrical specialist.





## AIR TO AIR HEATPUMPS

The room climate you want at all times between plus 3°C and 30°C: The units are ready for operation immediately, designed for outdoor installation without any intermediate medium and heat the air directly. The air distribution takes place by means of powerful radial fans. As an option, the units can also be used with cycle reversal function as cooling units in fresh air, mixed air and recirculation mode. **acr air-to-air heat pumps** can be used in any areas where it is important to ensure the right ambient temperatures for your needs. The areas of application are numerous: the units can be used in the event sector, for example, for tent heating/air conditioning, in warehouses and many other areas. Installation and integration is simple: the mobile **acr air-to-air heat pumps** in the acr rental park are designed for outdoor installation and can be set up on any load-bearing ground. Once the flexible air hoses and the power supply have been connected, the mobile ventilation unit can go into operation.



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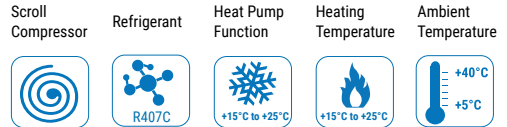


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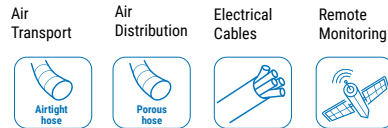
## ACR-RT-60 – Technical Specifications – Rental Rooftop Unit



### Quick overview



### Optionally accessories



Different requirements and applications can be provided on request!

### Technical specifications:

<b>*Heating capacity</b>	<b>kW</b>	<b>67</b>
<b>**Cooling capacity</b>	<b>kW</b>	<b>56</b>
Power input cooling	kW	26
Power input heating	kW	26
Operating current – cooling	A	52
Operating current – heating	A	51
Electrical connection	CEE	63A
*** Fuse protection	A	63
*** Cable recommendation	mm <sup>2</sup>	16
Air flow volume	m <sup>3</sup> /h	11400
External static pressure	Pa	196
Capacity control	Steps	2
Refrigerant circuits	No.	2
Refrigerant	-	R407C
Sound pressure at 5 m	dB(A)	62
Transport weight	kg	1000
Dimensions (l x w x h)	mm	2200x2100x1450

\* Design conditions:

\* Heating mode: Ambient temp. 7 °C ; Room temp. 21°C

\*\* Cooling mode: Ambient temp. 35 °C ; Room temp. 27°C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Compact corrosion resistant heating / ventilation unit for outdoor locations. Besides being a heat pump / in heating mode the unit can also be used to perform cooling by way of an integrated switchover function. Through the simple installation steps of – unloading, attaching air hoses, and attaching electrical power – you will have comfortable temperatures in the shortest possible time. Extensive optional accessories are available.





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\*Toll-free calls throughout Germany



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## ACR-RT-80 – Technical Specifications – Rental Rooftop Unit



### Quick overview

Scroll  
Compressor

Refrigerant

Heat Pump  
FunctionHeating  
TemperatureAmbient  
Temperature

### Optionally accessories

Air  
TransportAir  
DistributionElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Heating capacity	kW	72
**Cooling capacity	kW	80
Power input cooling	kW	23
Power input heating	kW	22
Operating current – cooling	A	58
Operating current – heating	A	58
Electrical connection	CEE	63A
*** Fuse protection	A	63
*** Cable recommendation	mm <sup>2</sup>	16
Air flow volume	m <sup>3</sup> /h	14100
External static pressure	Pa	206
Capacity control	Steps	2
Refrigerant circuits	No.	2
Refrigerant	–	R410A
Sound pressure at 5 m	dB(A)	62
Transport weight	kg	1600
Dimensions (l x w x h)	mm	3230x2360x1840

\* Design conditions:

\* Heating mode: Ambient temp. 7 °C ; Room temp. 21°C

\*\* Cooling mode: Ambient temp. 35 °C ; Room temp. 27°C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Compact corrosion resistant heating / ventilation unit for outdoor locations. Besides being a heat pump / in heating mode the unit can also be used to perform cooling by way of an integrated switchover function. Through the simple installation steps of – unloading, attaching air hoses, and attaching electrical power – you will have comfortable temperatures in the shortest possible time. Extensive optional accessories are available.





## AIR TO WATER- / WATER TO WATER-HEAT PUMPS

With a capacity from 75kW to 400kW per heat pump, fluids can be heated up to plus 50°C. The especially compact, environmentally friendly heat pumps can be used for heating as well as cooling. The **acr heat pumps** can be applied in all areas where liquids or air is to be heated. The areas of application are manifold. The devices can for example be used for building, event- and tent heating, in production processes, test setups and in many other areas. The installation and integration is very simple: The heat pumps in the acr rental park are designed for outdoor installation and can be installed on any viable ground. After connecting the pre-configured flexible hoses, as well as the power cabling, the heat pump can go into operation.



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\*Toll-free calls throughout Germany



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## ACR-M-40/WP/P – Technical Specifications – Rental Heat Pump Air to Water



### Quick overview

Scroll  
Compressor

Refrigerant

Heat Pump  
Function

bis +45°C

Integrated  
PumpSound  
Level

low noise

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
ExchangerElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Heating capacity	kW	39
**Cooling capacity	kW	40
Power input	kW	14
Voltage	V/Hz/Ph	400/50/3
Operating current	A	43
Electrical connection	Socket	CEE 63A
*** Fuse protection	A	50
*** Cable recommendation	mm <sup>2</sup>	16
max. Flow rate	m <sup>3</sup> /h	3,9
Max. operating pressure	bar	6
External pressure head	m	37
Cold water connections	Storz	C
Capacity control	%	25-100 (FD)
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	52
Transport weight	kg	395
Dimensions (l x w x h)	mm	1752x802x1878

\* Design conditions: Hot water temperatures 40/45°, Ambient temperature 7°C

\*\* Design conditions: Cold water temperatures 12/7°, Ambient temperature 35 °C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air to water heat pump with reversible operation can be used for heating/cooling. The unit is equipped with quiet running scroll compressors. The heat pump has an integrated pump with a head height of 37m (370kPa), it should be set up on a horizontal, stable area, and should have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-75/WP/P – Technical Specifications – Rental Heat Pump Air to Water



### Technical specifications:

<b>*Heating capacity</b>	<b>kW</b>	<b>82</b>
<b>**Cooling capacity</b>	<b>kW</b>	<b>75</b>
<b>Power input</b>	<b>kW</b>	<b>28</b>
<b>Voltage</b>	<b>V/Hz/Ph</b>	<b>400/50/3</b>
<b>Operating current</b>	<b>A</b>	<b>66</b>
<b>Electrical connection</b>	<b>Cable terminals</b>	<b>-</b>
<b>*** Fuse protection</b>	<b>A</b>	<b>80</b>
<b>*** Cable recommendation</b>	<b>mm<sup>2</sup></b>	<b>25</b>
<b>max. Flow rate</b>	<b>m<sup>3</sup> /h</b>	<b>13</b>
<b>Max. operating pressure</b>	<b>bar</b>	<b>6</b>
<b>External pressure head</b>	<b>m</b>	<b>23</b>
<b>Cold water connections</b>	<b>Storz</b>	<b>B</b>
<b>Capacity control</b>	<b>Steps</b>	<b>2</b>
<b>Refrigerant</b>	<b>-</b>	<b>R410A</b>
<b>Sound pressure at 5m</b>	<b>dB(A)</b>	<b>54</b>
<b>Transport weight</b>	<b>kg</b>	<b>1300</b>
<b>Dimensions (l x w x h)</b>	<b>mm</b>	<b>3400x1430x2130</b>

\* Design conditions: Hot water temperatures 40/45°, Ambient temperature 7°C

\*\* Design conditions: Cold water temperatures 12/7°, Ambient temperature 35 °C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Quick overview

Scroll Compressor



Refrigerant



Heat Pump Function



bis +45°C

Integrated Pump



Sound Level



low noise

### Optionally accessories

Cold Water Tubes



Ext. Pump Module



Heat Exchanger



Electrical Cables



Remote Monitoring



Different requirements and applications can be provided on request!

### Technical description:

Air to water heat pump with reversible operation can be used for heating/cooling. The unit is equipped with quiet running scroll compressors. The heat pump has an integrated pump with a head height of 23m (230kPa), it should be set up on a horizontal, stable area, and should have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany



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## ACR-M-130/WP/P – Technical Specifications – Rental Heat Pump Air to Water



### Quick overview

Scroll  
Compressor

Refrigerant

Heat Pump  
Function

bis +45°C

Integrated  
PumpSound  
Level

low noise

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
ExchangerElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Heating capacity	kW	133
**Cooling capacity	kW	126
Power input	kW	42
Voltage	V/Hz/Ph	400/50/3
Operating current	A	101
Electrical connection	Socket	CEE 125A
*** Fuse protection	A	125
*** Cable recommendation	mm <sup>2</sup>	5x35
max. Flow rate	m <sup>3</sup> /h	21,6
Max. operating pressure	bar	6
External pressure head	m	24
Cold water connections	Storz	B
Capacity control	Steps	2
Refrigerant	-	R 32
Sound pressure at 5m	dB(A)	57
Transport weight	kg	1007
Dimensions (l x w x h)	mm	3426x1211x1801

\* Design conditions: Hot water temperatures 40/45°, Ambient temperature 7°C

\*\* Design conditions: Cold water temperatures 12/7°, Ambient temperature 35 °C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air to water heat pump with reversible operation can be used for heating/cooling. The unit is equipped with quiet running scroll compressors. The heat pump has an integrated pump with a head height of 24m (240kPa), it should be set up on a horizontal, stable area, and should have at least 1m free space to all sides. All controls and regulators are contained within the housing.



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\*Toll-free calls throughout Germany

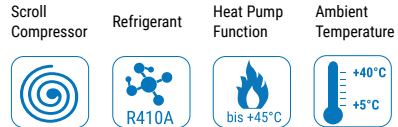


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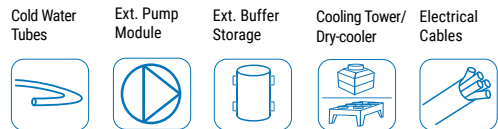
## ACR-M-290-W – Technical Specifications – Rental Heat Pump Water to Water



### Quick overview



### Optionally accessories



Different requirements and applications can be provided on request!

### Technical specifications:

*Heating capacity	kW	388
**Cooling capacity	kW	291
Power input	kW	74
Voltage	V/Hz/Ph	400/50/3
Operating current	A	183
Electrical connection	Cable terminals	-
*** Fuse protection	A	200
*** Cable recommendation	mm <sup>2</sup>	4x95
Flow rate Evaporator	m <sup>3</sup> / h	50,0
Flow rate Condenser	m <sup>3</sup> /h	62,6
Max. operating pressure	bar	10
Cold water connections	Storz	B
Condenser water connections	Storz	B
Capacity control	Steps	3
Sound pressure at 5m	dB(A)	68
Transport weight	kg	1200
Dimensions (l x w x h)	mm	2432x928x1186

\* Design conditions: Hot water temperatures 40°/45°C, evaporator water temperatures 15°C/10°C

\*\* Design conditions: Cold water temperatures 12°/7°, condenser water temperatures 30°/35°C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Water to water heat pump with reversible operation can be used for heating/cooling. The unit is equipped with quiet running scroll compressors. The heat pump should be set up on a horizontal, stable area, and should have at least 1m free space to all sides. All controls and regulators are contained within the housing.



0800 / 12 24 100\*

\*Toll-free calls throughout Germany



COMPETENT. FAST. RELIABLE

## ACR-M-400/P/WP – Technical Specifications – Rental Heat Pump Air to Water



### Quick overview

Scroll  
Compressor

Refrigerant

Heat Pump  
Function

bis +45°C

Integrated  
PumpSound  
Level

low noise

### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
ExchangerElectrical  
CablesRemote  
Monitoring

Different requirements and applications can be provided on request!

### Technical specifications:

*Heating capacity	kW	399
**Cooling capacity	kW	370
Power input	kW	126
Voltage	V/Hz/Ph	400/50/3
Operating current	A	297
Electrical connection	Cable terminals	
*** Fuse protection	A	315
*** Cable recommendation	mm <sup>2</sup>	185
Flow rate	m <sup>3</sup> /h	34
Max. operating pressure	bar	6
External pressure head	m	20
Cold water connections	Storz	A
Capacity control	Steps	4
Refrigerant	-	R32
Sound pressure at 5m	dB(A)	66
Transport weight	kg	3700
Dimensions (l x w x h)	mm	5100x2300x2760

\* Design conditions: Hot water temperatures 40/45°, Ambient temperature 7°C

\*\* Design conditions: Cold water temperatures 12/7°, Ambient temperature 35 °C

\*\*\* On-Site power installation should be entrusted to an electrical specialist.

### Technical description:

Air to water heat pump with reversible operation can be used for heating/cooling. The unit is equipped with quiet running scroll compressors. The heat pump has an integrated pump with a head height of 20m (200kPa), it should be set up on a horizontal, stable area, and should have at least 1m free space to all sides. All controls and regulators are contained within the housing.





## MOBILE HEATING SYSTEMS

**Mobile heat systems** from 50 up to 1,000kW heating capacity is suited for the most varied applications for heating. Whether for industrial solutions such as process warmth or as a heat provision for reconstruction measures, as public district heating or for warm water and warm air provision. The heat systems are alternatively available as a trailer- or container variant. The connection takes place via flexible connection tubes, the recirculating pump is integrated in the heat module. The fuel tank is integrated and heating oil is used as a fuel.



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\*Toll-free calls throughout Germany



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## ACR-OH-40 – Technical Specifications – Rental Oil Heating System



### Quick overview

Oil Heating -  
Water



Heating  
Temperature



Integrated  
Pump



Integrated  
Tank



### Optionally accessories

Cold Water  
Tubes



Electrical  
Cables



Ext. Tank



Circulating  
Air Heating



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical specifications:

<b>Heating capacity</b>	<b>kW</b>	<b>40</b>
Max. water temperatures	°C	90/70
Fuel	Type	Oil
Capacity of oil tank, internal	l	140
Flue system	Type	Stainless steel stack
Medium	Type	Water
Medium content	l	70
Max. operating pressure	bar	3
Expansion tank	l	80
Flow rate, pump	m <sup>3</sup> /h	1,72
External pressure head	m	3,6
Voltage	-	230V/50Hz/N/PE
Operating current	A	< 16
Dimensions without stack (l x w x h)	mm	2350x1520x2000
Dimensions with stack (l x w x h)	mm	2350x1520x3000
Transport weight	kg	780kg

### Technical description:

Heat system for the provision of mobile warmth with heating, warm water production, recirculating pump, expansion container and integrated tank plant. As a fuel, heating oil is used and the regulation fulfils all requirements. Due to the light design, the plant can be flexibly and easily transferred. The operation takes place comfortably at standing height via a side lid. The connection is done via flexible connection lines.



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\*Toll-free calls throughout Germany



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# ACR-OH-200 – Technical Specifications – Rental Oil Heating System



## Quick overview

Oil Heating -  
WaterHeating  
TemperatureIntegrated  
PumpIntegrated  
Tank

## Optionally accessories

Cold Water  
TubesElectrical  
Cables

Ext. Tank

Circulating  
Air HeatingHeat  
Exchanger

Different requirements and applications can be provided on request!

## Technical specifications:

<b>Heating capacity</b>	<b>kW</b>	<b>180</b>
Hot water temperatures	°C	90/70
Tap water temperatures	°C	60/45
Tap water capacity	l/h	2580
Fuel	Type	Oil
Capacity of oil tank, internal	l	850
Flue system	Type	Stainless steel stack
Medium primary side	Type	Brine -20°C
Medium content primary	l	418
Max. operating pressure primary hc	bar	3
Max. operating pressure secondary hc	bar	6
Flow rate, primary pump	m <sup>3</sup> /h	9,5
Flow rate, secondary pump	m	14
Operating current	A	16
Voltage	-	400V/50Hz/N/PE
Operating weight	kg	3180
Dimensions (l x w x h)	mm	2991x2438x2591

## Technical description:

Heat system for the provision of mobile warmth with heating, warm water production, recirculating pump, expansion container and integrated tank plant. As a fuel, heating oil is used and the regulation fulfils all requirements. Due to the light design, the plant can be flexibly and easily transferred. The operation takes place comfortably at standing height via a side lid. The connection is done via flexible connection lines.



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\*Toll-free calls throughout Germany



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## ACR-OH-350 – Technical Specifications – Rental Oil Heating System



### Quick overview

Oil Heating -  
Water



Heating  
Temperature



Integrated  
Pump



Integrated  
Tank



### Optionally accessories

Cold Water  
Tubes



Electrical  
Cables



Ext. Tank



Circulating  
Air Heating



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical specifications:

<b>Heating capacity</b>	<b>kW</b>	<b>350</b>
Hot water temperatures	°C	90/70
Fuel	Type	Oil
Capacity of oil tank, internal	l	1500
Flue system	Type	Stainless steel stack
Medium	Type	Water
Antifreeze protection	-	yes
Flow rate	m³/h	15
External pressure head	m	10
Remote-/tank monitoring	-	optional
Safety valve	bar	3
Operating current	A	16
Voltage	-	400V/50Hz - CEE16A
Operating weight	kg	3500
Dimensions (l x w x h)	mm	2991x2438x2591

### Technical description:

Heat system for the provision of mobile warmth with heating, warm water production, recirculating pump, expansion container and integrated tank plant. As a fuel, heating oil is used and the regulation fulfils all requirements. Due to the light design, the plant can be flexibly and easily transferred. The operation takes place comfortably at standing height via a side lid. The connection is done via flexible connection lines.



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\*Toll-free calls throughout Germany



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## ACR-OH-550 – Technical Specifications – Rental Oil Heating System



### Quick overview

Oil Heating -  
Water



Heating  
Temperature



Integrated  
Pump



Integrated  
Tank



### Optionally accessories

Cold Water  
Tubes



Electrical  
Cables



Ext. Tank



Circulating  
Air Heating



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical specifications:

<b>Heating capacity</b>	<b>kW</b>	<b>550</b>
Hot water temperatures	°C	90/70
Fuel	Type	Oil
Capacity of oil tank, internal	l	1500
Flue system	Type	Stainless steel stack
Medium	Type	Water
Antifreeze protection	-	yes
Flow rate	m <sup>3</sup> /h	26
External pressure head	m	12
Remote-/tank monitoring	-	optional
Safety valve	bar	3
Operating current	A	16
Voltage	-	400V/50Hz – CEE16A
Operating weight	kg	4500
Dimensions (l x w x h)	mm	4590x2438x2591

### Technical description:

Heat system for the provision of mobile warmth with heating, warm water production, recirculating pump, expansion container and integrated tank plant. As a fuel, heating oil is used and the regulation fulfils all requirements. Due to the light design, the plant can be flexibly and easily transferred. The operation takes place comfortably at standing height via a side lid. The connection is done via flexible connection lines.



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\*Toll-free calls throughout Germany



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## ACR-OH-1000 – Technical Specifications – Rental Oil Heating System



### Quick overview

Oil Heating -  
Water



Heating  
Temperature



Integrated  
Pump



Integrated  
Tank



### Optionally accessories

Cold Water  
Tubes



Electrical  
Cables



Ext. Tank



Circulating  
Air Heating



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical specifications:

<b>Heating capacity</b>	<b>kW</b>	<b>1000</b>
Hot water temperatures	°C	90/70
Fuel	Type	Oil
Capacity of oil tank, internal	l	Extern / Optional
Flue system	Type	Stainless steel stack
Medium	Type	Water
Antifreeze protection	-	yes
Flow rate	m³/h	45
External pressure head	m	25
Remote-/tank monitoring	-	optional
Safety valve	bar	4
Operating current	A	32
Voltage	-	400V/50Hz - CEE32A
Operating weight	kg	8000
Dimensions (l x w x h)	mm	6058x2438x2591

### Technical description:

Heat system for the provision of mobile warmth with heating, warm water production, recirculating pump, expansion container and integrated tank plant. As a fuel, heating oil is used and the regulation fulfils all requirements. Due to the light design, the plant can be flexibly and easily transferred. The operation takes place comfortably at standing height via a side lid. The connection is done via flexible connection lines.



# POWER SUPPLY



EMERGENCY POWER SUPPLY AGGREGATES

PAGE 121







## EMERGENCY POWER SUPPLY AGGREGATES

Whether as a redundancy for especially sensitive areas or as a temporary power supply, acr delivers emergency power supplies of 100 up to 500kVA. The sound damped aggregates include an integrated or external double-walled tank with 1,200l, 2,400l, 2,750, 5,200 or 11,000l dependent on the model variant. The devices have as standard equipment a starter battery-maintenance as well as a preheat function for smooth starting of the unit. Extensive accessories such as cable or mesh generator- control cabinet for the automatic switching of network power or emergency power are available.



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\*Toll-free calls throughout Germany



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## ACR-SA-250-200 – Technical Specifications – Emergency Power Generator



### Optionally accessories

Electrical Cables



Ext. Tank



Distribution Box



Different requirements and applications can be provided on request!

### Technical specifications:

<b>Continuous Power</b>	<b>kVA</b>	<b>250</b>
Voltage	V/Hz/Ph	400/50/3
Power factor	Cos phi	0,8
Circuit breaker	A	400
Fuel tank	l	240
Fuel Consumption (100% prime power)	l/h	50
Refuel period (permanent operation)	–	5
Fuel	–	Diesel
Sound pressure at 5m	dB(A)	70
Weight	kg	4300
Dimensions (l x w x h)	mm	3650x1240x2100

### Technical description:

Emergency generator for outdoor installation in corrosion-resistant design. The unit has an integrated diesel tank, is designed as a covered unit and should be installed outdoors on a level, load-bearing surface. The default operating mode is isolated operation. Parallel mains operation, emergency power operation with built-in mains monitoring and back-synchronisation are also available as options.



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\*Toll-free calls throughout Germany



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## ACR-SA-300-240-1 – Technical Specifications – Emergency Power Generator



### Optionally accessories

Electrical Cables



Ext. Tank



Distribution Box



Different requirements and applications can be provided on request!

### Technical specifications:

Continuous Power	kVA	300
Voltage	V/Hz/Ph	400/50/3
Power factor	Cos phi	0,8
Circuit breaker	A	400
Fuel tank	l	270
Fuel Consumption (100% prime power)	l/h	60
Refuel period (permanent operation)	–	4,5
Fuel	–	Diesel
Sound pressure at 5m	dB(A)	70
Weight	kg	5250
Dimensions (l x w x h)	mm	4170x1440x2380

### Technical description:

Emergency generator for outdoor installation in corrosion-resistant design. The unit has an integrated diesel tank, is designed as a covered unit and should be installed outdoors on a level, load-bearing surface. The default operating mode is isolated operation. Parallel mains operation, emergency power operation with built-in mains monitoring and back-synchronisation are also available as options.



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\*Toll-free calls throughout Germany



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## ACR-SA-800-640 – Technical Specifications – Emergency Power Generator



### Optionally accessories

Electrical Cables



Ext. Tank



Distribution Box



Different requirements and applications can be provided on request!

### Technical specifications:

<b>Continuous Power</b>	<b>kVA</b>	<b>807</b>
Voltage	V/Hz/Ph	400/50/3
Power factor	Cos phi	0,8
Circuit breaker	A	1250
Fuel tank	l	1000
Fuel Consumption (100% prime power)	l/h	176,25
Refuel period (permanent operation)	–	5,7
Fuel	–	Diesel
Sound pressure at 5m	dB(A)	77
Weight	kg	8480
Dimensions (l x w x h)	mm	5600x1950x2575

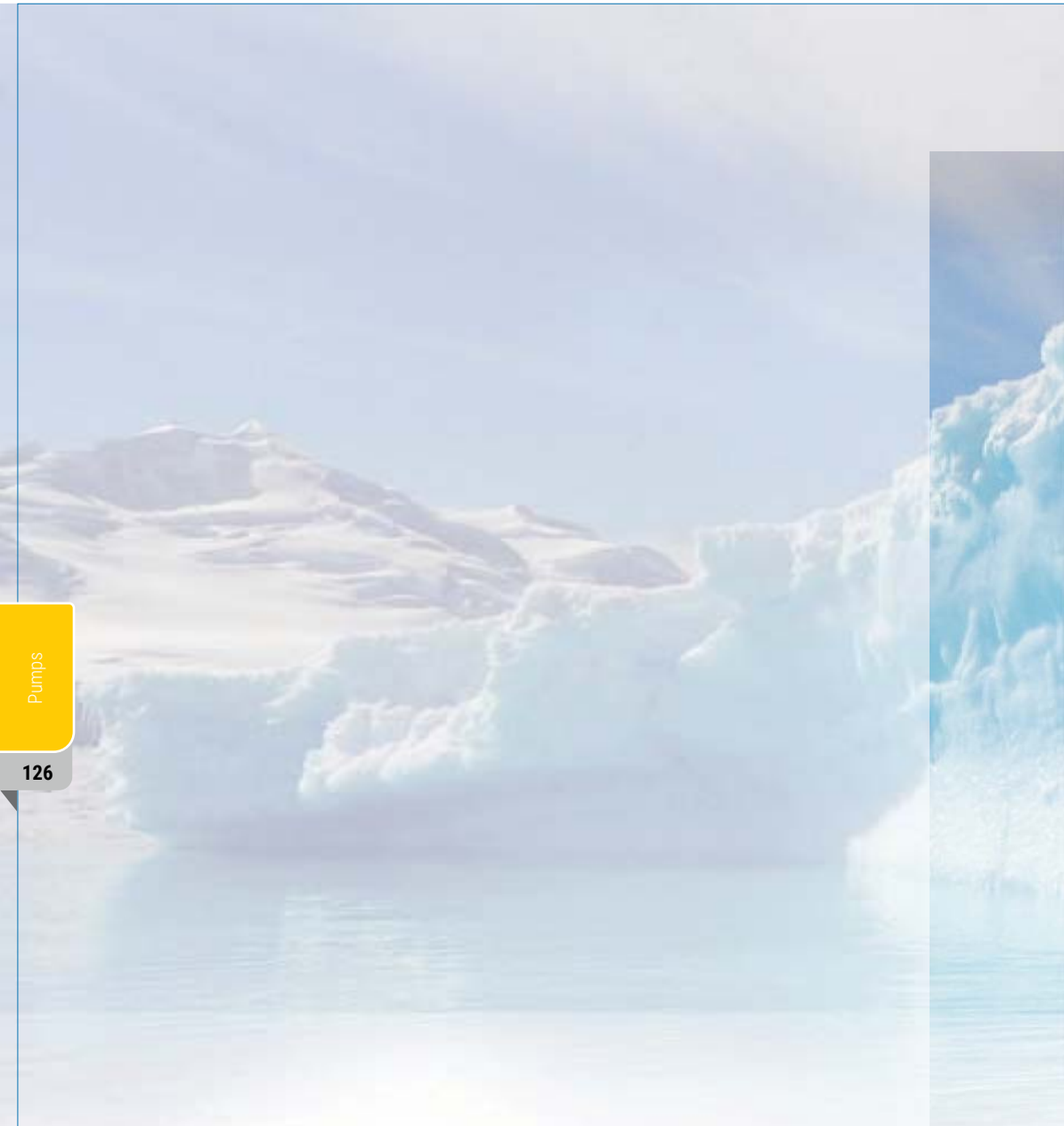
### Technical description:

Emergency generator for outdoor installation in corrosion-resistant design. The unit has an integrated diesel tank, is designed as a covered unit and should be installed outdoors on a level, load-bearing surface. The default operating mode is isolated operation. Parallel mains operation, emergency power operation with built-in mains monitoring and back-synchronisation are also available as options.



# ACCESSORIES

	<b>PUMPS</b>	<b>PAGE 127</b>
	<b>HEAT EXCHANGERS</b>	<b>PAGE 145</b>
	<b>BUFFER STORAGE</b>	<b>PAGE 159</b>
	<b>DIVIDER</b>	<b>PAGE 163</b>
	<b>EXPANSION TANK</b>	<b>PAGE 165</b>
	<b>VALVES</b>	<b>PAGE 167</b>
	<b>WATER HOSES AND COUPLINGS</b>	<b>PAGE 171</b>
	<b>AIR DISTRIBUTION</b>	<b>PAGE 175</b>
	<b>ELECTRIC</b>	<b>PAGE 177</b>
	<b>SOUND REDUCTION</b>	<b>PAGE 181</b>
	<b>MISCELLANEOUS ACCESSORIES</b>	<b>PAGE 185</b>





## PUMPS AND PUMP MODULES

Mounted as single or double pump(s) on a sturdy steel frame. Also attached is a control cabinet with all the necessary electrical switching components. Extensive optional accessories such as three way valves, changeover valves, frequency converter, expansion tank, actuators, sound attenuation and weatherproof housing is available. The **acr pump modules** are in stock with a capacity of over 400 m<sup>3</sup>/h at a maximum head of 50 meters and are suitable for media temperatures of minus 30 to plus 95°C. Higher capacities and other temperature ranges can be provided upon request.

The **acr pump modules** are used wherever fluids must be transported. Acr offers the corresponding aggregates for almost all applications such as for cooling, air conditioning and heating applications. The areas of application are manifold: For example, the modules are used in building air-conditioning, waste water technology, production processes, test setups, medical technology, pharmaceuticals, food processing, beverage industry, chemical industry, plastics industry, and in many other areas.

The installation and integration is very simple: Due to its compact dimensions and the frame structure, the modules can be easily unloaded and transported by forklift truck. The mobile pump modules in the acr rental park are designed for installation in a dry, frost-free location and can be installed outdoors with optional provisions. After connecting the pre-configured flexible hoses and the power cabling the pump module can be filled and can go into operation.



## ACR-PM-1-6 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	1,1
Voltage / Electrical Connection	400V/3/N/PE	CEE16A Socket
Operating current	A	2,3
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	1 / 6
Pressure head min / max	m	25/62
Max. operating pressure	bar	10
*Water connections	Storz	C
Filter	Type	KSB / DN 50
Weight	kg	230
Dimensions (l x w x h)	mm	1600x720x1460

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

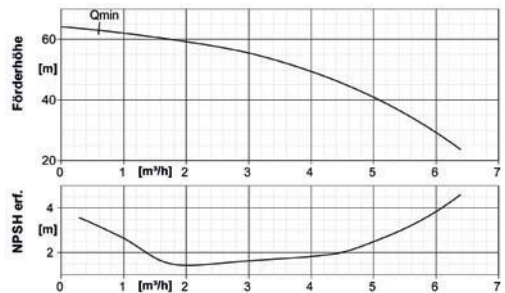


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 16A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:







0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-PM-3-11 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	1,4
Voltage / Electrical Connection	400V/3/N/PE	CEE16A Socket
Operating current	A	2,5
Degree of protection	Type	IP 55
Flow rate min / max	m³/h	2 / 11
Pressure head min / max	m	10/22
Max. operating pressure	bar	10
*Water connections	Storz	C
Filter	Type	KSB / DN 50
Weight	kg	335
Dimensions (l x w x h)	mm	1660x680x1450

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

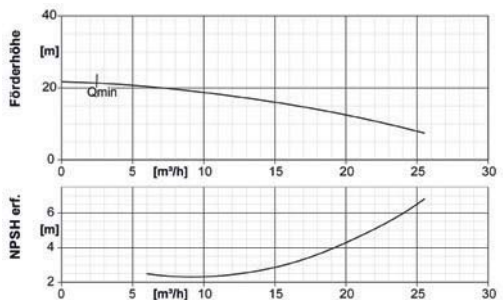


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 16A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





## ACR-PM-3-30 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	2,44
Voltage / Electrical Connection	400V/3/N/PE	CEE16A Socket
Operating current	A	5,9
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	3 / 30
Pressure head min / max	m	15 / 28
Max. operating pressure	bar	10
*Water connections	Storz	B
Filter	Type	KSB / DN 80
Weight	kg	336
Dimensions (l x w x h)	mm	1660x680x1450

\*Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

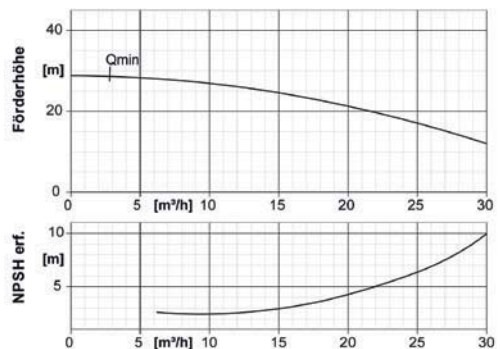


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 16A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





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\*Toll-free calls throughout Germany



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## ACR-PM-3-35 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	4,0
Voltage / Electrical Connection	400V/3/N/PE	CEE32A Socket
Operating current	A	10
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	3 / 35
Pressure head min / max	m	36 / 63
Max. operating pressure	bar	10
*Water connections	Storz	B
Filter	Type	KSB / DN 80
Weight	kg	360
Dimensions (l x w x h)	mm	1500x670x1450

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

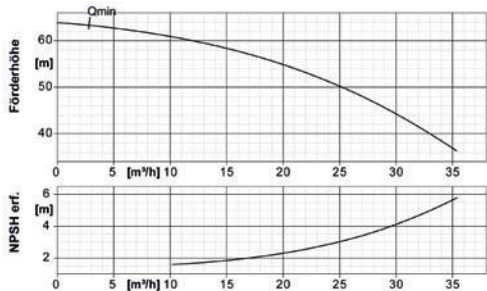


Different requirements and applications can be provided on request!

### Technical description:

External high-pressure pump module with CEE 32A plug, frequency converter, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-PM-5-40 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	4,0
Voltage / Electrical Connection	400V/3/N/PE	CEE16A Socket
Operating current	A	8,0
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	5 / 45
Pressure head min / max	m	14 / 28
Max. operating pressure	bar	10
*Water connections	Storz	A
Filter	Type	KSB / DN 80
Weight	kg	336
Dimensions (l x w x h)	mm	1660x680x1450

\*Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

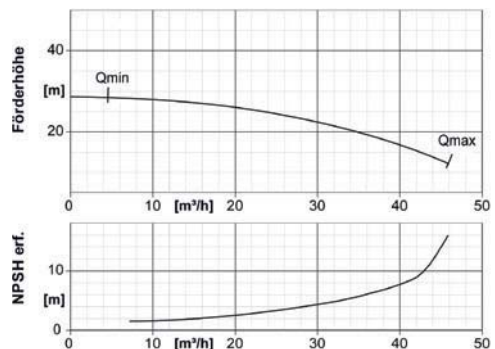


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 16A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-PM-9-70 – Technical Specifications – Pump Modul



### Technical specifications:

<b>Pump Capacity</b>	<b>kW</b>	<b>5,5</b>
Voltage / Electrical Connection	400V/3/N/PE	CEE16A Socket
Operating current	A	10,5
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	9 / 70
Pressure head min / max	m	15 / 31
Max. operating pressure	bar	6
*Water connections	Storz	B
Filter	Type	KSB / DN 80
Weight	kg	347
Dimensions (l x w x h)	mm	1700x680x1460

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

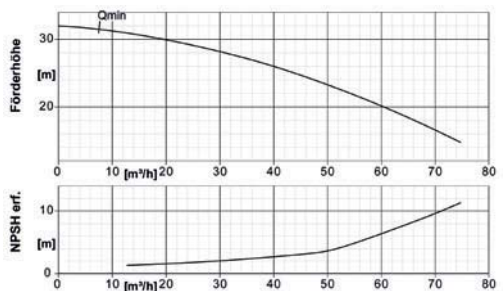


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 16A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





## ACR-PM-14-84 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	7,5
Voltage / Electrical Connection	400V/3/N/PE	CEE32A Socket
Operating current	A	14,1
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	14 / 84
Pressure head min / max	m	20 / 34
Max. operating pressure	bar	6
*Water connections	Storz	A
Filter	Type	KSB / DN 100
Weight	kg	350
Dimensions (l x w x h)	mm	1600x600x1250

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

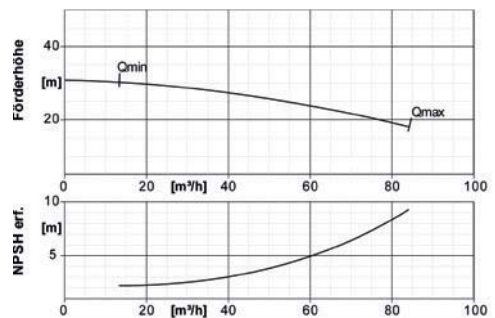


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 32A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-PM-15-163 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	11
Voltage / Electrical Connection	400V/3/N/PE	CEE32A Socket
Operating current	A	22
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	15 / 163
Pressure head min / max	m	12 / 33
Max. operating pressure	bar	6
*Water connections	Storz	A
Filter	Type	KSB / DN 100
Transport weight	kg	535
Operating weight	kg	555
Dimensions (l x w x h)	mm	2000x700x1900

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

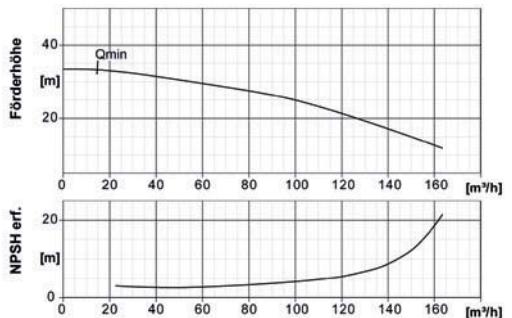


Different requirements and applications can be provided on request!

### Technical description:

External high-pressure pump module with CEE 32A plug, frequency converter, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-PM-32-195-1 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	11
Voltage / Electrical Connection	400V/3/N/PE	CEE32A Socket
Operating current	A	21
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	32 / 195
Pressure head min / max	m	12 / 16
Max. operating pressure	bar	10
*Water connections	Storz	125
Filter	Type	KSB / DN125
Weight	kg	500
Dimensions (l x w x h)	mm	2000x680x1400

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

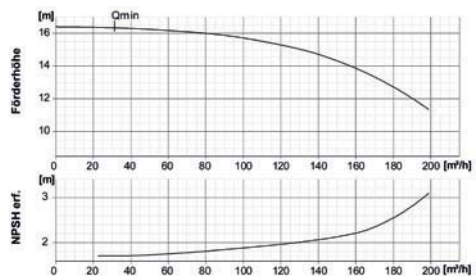


Different requirements and applications can be provided on request!

### Technical description:

External pump module with CEE 32A plug, with high-pressure pump, frequency converter, switch cabinet, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:







0800 / 12 24 100\*

\*Toll-free calls throughout Germany



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## ACR-PM-25-245 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	30
Voltage / Electrical Connection	400V/3/N/PE	CEE125A Socket
Operating current	A	56
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	30 / 240
Pressure head min / max	m	28 / 40
Max. operating pressure	bar	10
*Water connections	Storz	125
Filter	Type	KSB / DN 125
Weight	kg	1000
Dimensions (l x w x h)	mm	2300x800x2000

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

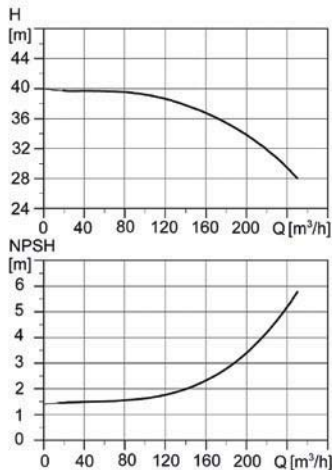


Different requirements and applications can be provided on request!

### Technical description:

External high-pressure pump module with CEE 125A plug, frequency converter, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





## ACR-PM-20-155 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	37
Voltage / Electrical Connection	400V/3/N/PE	CEE125A Socket
Operating current	A	80
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	20 /155
Pressure head min / max	m	55/90
Max. operating pressure	bar	10
*Water connections	Flange	DN100 / PN 16
Filter	Type	KSB / DN 100
Weight	kg	635
Dimensions (l x w x h)	mm	1950x800x2000

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

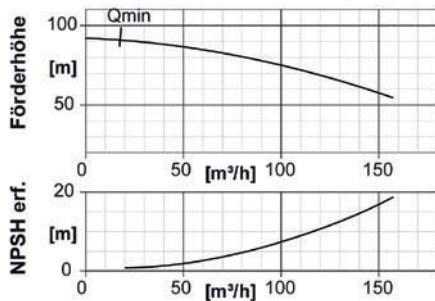


Different requirements and applications can be provided on request!

### Technical description:

External high-pressure pump module with CEE 125A plug, frequency converter, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:





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## ACR-PM-30-400 – Technical Specifications – Pump Modul



### Technical specifications:

Pump Capacity	kW	37
Voltage / Electrical Connection	400V/3/N/PE	CEE125A Socket
Operating current	A	67
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	30 / 400
Pressure head min / max	m	23 / 35
Max. operating pressure	bar	10
*Water connections	Storz	125
Filter	Type	KSB / DN 200
Weight	kg	1250
Dimensions (l x w x h)	mm	2400x1000x2000

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

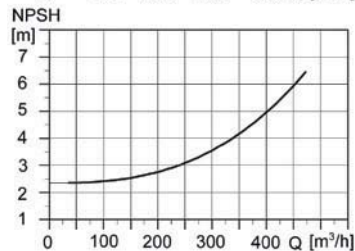
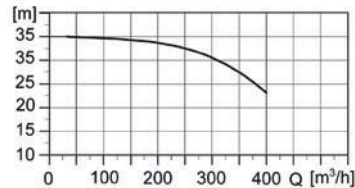


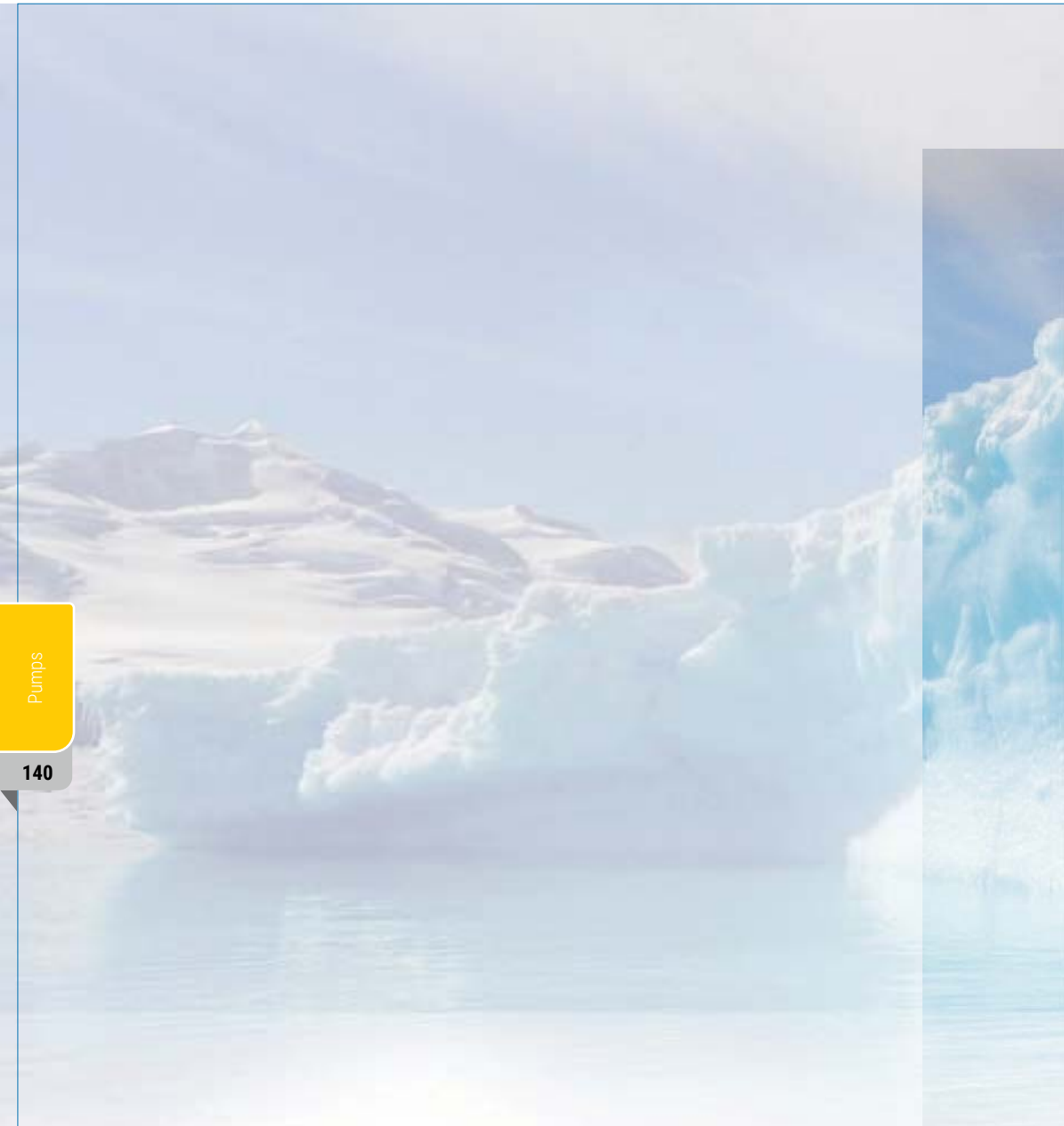
Different requirements and applications can be provided on request!

### Technical description:

External high-pressure pump module with CEE 125A plug, frequency converter, dirt trap, gate valve and fittings mounted on a stable base frame. Extensive accessories are available as options.

### Pump diagram:







## SUBMERSIBLE PUMPS

**acr submersible pumps** in robust design with stainless steel outer casing. Extensive accessories such as flexible hoses, electric cables and distributors are available as options. The delivery rate ranges from 10 to 100 m<sup>3</sup>/h with a maximum delivery head of 35m. Larger capacity and delivery heads can be provided on request.

**acr submersible pumps** are used wherever liquids have to be pumped, e.g. in open buffer tanks or basins below ground level, for emptying tanks, water intake and drainage.

Integration is very simple. As soon as the flexible hoses and electricity are connected, the pump can be put into operation.



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## ACR-PM-1-25-1 – Technical Specification – Submersible Pump



### Technical specifications:

<b>Pump Capacity</b>	<b>kW</b>	<b>2,2</b>
Voltage / Electrical Connection	230V/1/N/PE	
Operating current	A	9,5
Degree of protection	Type	IP 67
Flow rate min / max	m <sup>3</sup> /h	1/25
Pressure head min / max	m	3/15
*Water connections	Storz	C
Filter	Type	-
Weight	kg	22
Dimensions (l x w x h)	mm	203x203x446

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

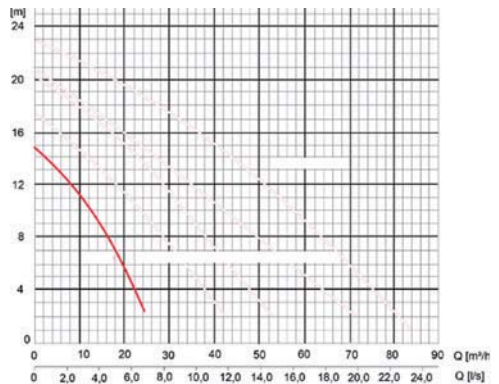


Different requirements and applications can be provided on request!

### Technical description:

Submersible pump module including 10 metre electric cable with 230V safety plug. The maximum submersion depth is 5 metres. Extensive accessories are available as options.

### Pump diagram:





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## ACR-PM-10-108-1 – Technical Specification – Submersible Pump



### Technical specifications:

Pump Capacity	kW	7,5
Voltage / Electrical Connection	400V/3/N/PE	CEE32A Socket
Operating current	A	15,3
Degree of protection	Type	IP 55
Flow rate min / max	m <sup>3</sup> /h	10/108
Pressure head min / max	m	4/35
Max. operating pressure	bar	6
*Water connections	Storz	A
Filter	Type	-
Weight	kg	80
Dimensions (l x w x h)	mm	286x286x610

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Heat Exchanger



Electrical Cables



Ext. Buffer Storage

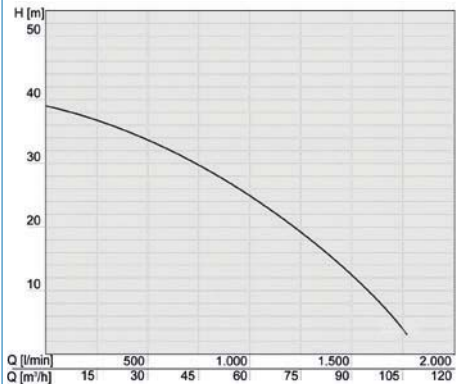


Different requirements and applications can be provided on request!

### Technical description:

Submersible pump module including 20 metre electric cable with CEE 32A plug and a stainless steel chain to position the pump properly. Extensive accessories are available as options.

### Pump diagram:









## HEAT EXCHANGERS

**Heat exchangers** achieve a separation between the primary circuit and the secondary circuit on the basis of differing temperatures, media or different pressures. The heat exchangers are mounted on stable feet or steel frames and are in stock and available for flow rates up to 220 m<sup>3</sup>/h per module. For greater capacities, these can respectively be arranged in parallel. The medium temperature can vary depending on the equipment version between minus 30 degrees to plus 120°C.

The installation and integration is very simple: Due to its compact dimensions and the frame structure, the modules can be easily unloaded and transported by forklift truck. The mobile modules in the acr rental park are designed for installation in a dry, frost-free location and can be installed outdoors with optional provisions. After connection of the preconfigured flexible tubes, the system separation modules can be filled and put into operation.



## ACR-PW-4-4 – Technical Specifications – Plate to Plate Heat Exchanger



### Technical specifications:

Exchange Capacity	kW	25
Flow rate primary	m <sup>3</sup> /h	3,9
Flow rate secondary	m <sup>3</sup> /h	3,6
Temperature in / out – prim.	°C	4/10
Temperature in / out – sec.	°C	12/6
Pressure drop primary	kPa	18
Pressure drop secondary	kPa	15
Medium primary side	–	30% Ethylene glycol
Medium secondary	–	Water
*Water connections	Storz	C
Filter	Type	DN32
Weight	kg	135
Dimensions (l x w x h)	mm	840x700x1360

\* Connections individually configurable on request

### Optionally accessories

Cold Water  
Tubes



Pump  
Module



Electrical  
Cables



Ext. Buffer  
Storage



Different requirements and applications can be provided on request!

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options



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## ACR-PW-11-12 – Technical Specifications – Plate to Plate Heat Exchanger



### Technical specifications:

	Cooling		Heating
Exchange Capacity	kW	68	270
Flow rate primary	m³/h	10,7	12
Flow rate secondary	m³/h	9,7	11,8
Temperature in / out – prim.	°C	4/10	85/65
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	61	50
Pressure drop secondary	kPa	41	50
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	C	
Filter	Type	KSB / DN 50	
Transport weight	kg	390	
Operating weight	kg	415	
Dimensions (l x w x h)	mm	1200x730x1750	

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



## ACR-PW-14-16 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	100	1050
Flow rate primary	m³/h	15,6	49,3
Flow rate secondary	m³/h	14,3	45,1
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	6	48
Pressure drop secondary	kPa	5	45
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	B	
Filter	Type	DN50/PN16 KSB	
Weight	kg	275	
Dimensions (l x w x h)	mm	1150x700x1350	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



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## ACR-PW-22-25 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	150	1500
Flow rate primary	m³/h	25,3	70,4
Flow rate secondary	m³/h	21,5	64,5
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	7	48
Pressure drop secondary	kPa	5	45
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	B	
Filter	Type	KSB DN80	
Weight	kg	291	
Dimensions (l x w x h)	mm	1300x550x1480	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



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## ACR-PW-27-33 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	217	900
Flow rate primary	m³/h	42,9	42,3
Flow rate secondary	m³/h	49,6	38,7
Temperature in / out – prim.	°C	12/7,7	90/70
Temperature in / out – sec.	°C	5/9,4	60/80
Pressure drop primary	kPa	55	48
Pressure drop secondary	kPa	65	46
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	B	
Filter	Type	DN50/PN16 KSB	
Weight	kg	141	
Dimensions (l x w x h)	mm	900x700x1200	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



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## ACR-PW-40-44 – Technical Specifications – Plate to Plate Heat Exchanger



### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	280	2200
Flow rate primary	m <sup>3</sup> /h	44	103,3
Flow rate secondary	m <sup>3</sup> /h	40	94,6
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	11	46
Pressure drop secondary	kPa	9	44
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	DN100	
Filter	Type	KSB DN100	
Weight	kg	640	
Dimensions (l x w x h)	mm	1600x700x1400	

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



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## ACR-PW-54-64 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	380	1400
Flow rate primary	m³/h	54	66
Flow rate secondary	m³/h	64	60
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	43	45
Pressure drop secondary	kPa	35	43
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	B	
Filter	Type	KSB DN80	
Transport weight	kg	500	
Operating weight	kg	640	
Dimensions (l x w x h)	mm	1600x700x1400	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.





## ACR-PW-72-77 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	500	1700
Flow rate primary	m <sup>3</sup> /h	78	80
Flow rate secondary	m <sup>3</sup> /h	72	73
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	48	46
Pressure drop secondary	kPa	41	44
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	A	
Filter	Type	KSB DN80	
Weight	kg	540	
Dimensions (l x w x h)	mm	1680x710x1410	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



## ACR-PW-84-72 – Technical Specifications – Plate to Plate Heat Exchanger



### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	420	1900
Flow rate primary	m³/h	72	85
Flow rate secondary	m³/h	84	72
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/7	56/79
Pressure drop primary	kPa	75	90
Pressure drop secondary	kPa	90	75
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	A	
Filter	Type	KSB DN80	
Weight	kg	375	
Dimensions (l x w x h)	mm	1120x750x1470	

\* Connections individually configurable on request

### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



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## ACR-PW-100-108 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	700	3100
Flow rate primary	m³/h	109	122
Flow rate secondary	m³/h	100	112
Temperature in / out – prim.	°C	4/10	90/66
Temperature in / out – sec.	°C	12/6	60/84
Pressure drop primary	kPa	50	56
Pressure drop secondary	kPa	41	52
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	A	
Filter	Type	KSB DN100	
Weight	kg	1250	
Dimensions (l x w x h)	mm	2500x1000x2230	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



## ACR-PW-122-132 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water  
TubesPump  
ModuleElectrical  
CablesExt. Buffer  
Storage

Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	850	3000
Flow rate primary	m <sup>3</sup> /h	132	141
Flow rate secondary	m <sup>3</sup> /h	122	129
Temperature in / out – prim.	°C	4/10	90/70
Temperature in / out – sec.	°C	12/6	60/80
Pressure drop primary	kPa	49	51
Pressure drop secondary	kPa	41	47
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	A	
Filter	Type	KSB DN100	
Weight	kg	900	
Dimensions (l x w x h)	mm	2300x720x1710	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



## ACR-PW-172-190 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	1057	5233
Flow rate primary	m <sup>3</sup> /h	174	211
Flow rate secondary	m <sup>3</sup> /h	160	193
Temperature in / out – prim.	°C	4/10	90/67
Temperature in / out – sec.	°C	12/6	60/83
Pressure drop primary	kPa	43	56
Pressure drop secondary	kPa	35	52
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections	Storz	125	
Filter	Type	KSB DN125	
Weight	kg	1660	
Dimensions (l x w x h)	mm	3000x770x2350	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



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## ACR-PW-188-224 – Technical Specifications – Plate to Plate Heat Exchanger



### Optionally accessories

Cold Water Tubes



Pump Module



Electrical Cables



Ext. Buffer Storage



Different requirements and applications can be provided on request!

### Technical specifications:

		Cooling	Heating
Exchange Capacity	kW	1200	7581
Flow rate primary	m³/h	224	305
Flow rate secondary	m³/h	188	279
Temperature in / out – prim.	°C	4/10	90/67
Temperature in / out – sec.	°C	12/6,5	60/83
Pressure drop primary	kPa	28	49
Pressure drop secondary	kPa	19	45
Medium primary side	–	30% Ethylene glycol	
Medium secondary	–	Water	
*Water connections primary	Flange	DN150	
Filter	Type	KSB / DN 150	
Weight	kg	2100	
Dimensions (l x w x h)	mm	3600x1000x2200	

\* Connections individually configurable on request

### Technical description:

External plate heat exchanger, dirt trap and gate valve mounted on a stable base frame. Extensive accessories are available as options.



## BUFFER STORAGE

**acr buffer storage tanks** are available in open and closed versions from 200 to 2000 litres and are mounted on a stable base frame. The storage tanks have 4 connections and can be used both to increase volume and as hydraulic separators. The fitted quick couplings, butterfly valves, pressure gauges and thermometers enable smooth integration and adjustment.

**acr buffer tanks** are used in cold water systems to increase the total volume or to decouple a chiller hydraulically from the consumer circuit in order to stabilise the overall system when loads or pressures fluctuate.



## ACR-PU-500 to 1000 – Technical Specifications – Open buffer tank



### Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
Exchanger

Different requirements and applications can be provided on request!

### Technical description:

Cold water buffer tank in open design, upright, with no internal fittings, made of a tubular steel frame with integrated plastic tank, no insulation. The buffer tank is equipped with 4 connections and can be used as a hydraulic separator.

### Technical specifications:

Buffer storage	L	500	1000
Medium temperature min./max.	°C	0 / 40	0 / 40
*Connections	Storz	B	B
No. of connections	No.	2	4
Transport weight	kg	200	90
Dimensions (l x w x h)	mm	1230x860x2350	1400x1000x1200

\* Connections individually configurable on request





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\*Toll-free calls throughout Germany



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## ACR-PUG-200 to 2000 – Technical Specifications – Closed buffer tank



### Optionally accessories

Cold Water  
Tubes



Ext. Pump  
Module



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical description:

Cold water buffer tank in closed design, upright, with nozzle pipe, made of sheet steel, unfinished inside, with insulation. The buffer tank is equipped with 4 connections, gate valve, sensor sleeves, drain and vent.

### Technical specifications:

Buffer storage	L	200	500	1000	1500	2000
Medium temperature min./max. °C		-10/+50	-10/+50	-10/+50	-10/+50	-10/+50
Max. operating pressure	bar	10	10	10	10	10
Connections	DN/Storz	C	B	100 / A	100 / A	125 / 125
No. of connections	No.	4	4	4	4	4
Weight	Kg	131	213	468	546	700
Dimensions (l x w x h)	mm	880x700x1710	1200x920x2000	1700x1030x2470	2040x1280x2470	2000x1400x2380

\* Connections individually configurable on request

Buffer Storage

161





## DIVIDER

**acr cold water supply/return manifolds** are mounted in a stable base frame and are available with flange outlets from DN50 to DN125. The compact dimensions and frame design mean that the modules can be positioned by hand or with a pallet truck or forklift, depending on the size. Quick couplings and butterfly valves enable fast and easy integration.

**acr distributors** are used in cold water systems for distribution to several consumers or consumer circuits.



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\*Toll-free calls throughout Germany



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## ACR-VT – Technical Specifications – Divider



### Optionally accessories

Cold Water  
Tubes



Ext. Pump  
Module



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical description:

Cold water round pipe supply/return manifold, insulated, mounted on base frame. Outlets with flanged butterfly valves.

Transitions and other accessories on request.

### Technical specifications:

	VT-	2-5	2-4	2-3
<b>Application</b>	<b>kW</b>	<b>20 - 100</b>	<b>100 - 400</b>	<b>400 - 800</b>
<b>Cooling capacity</b>				
Supply inlet	Flange / Storz	1 x 3/4" / StorzC	1x DN 100 / StorzA	1x DN 125 / Storz125
Supply outlet	Flange / Storz	5 x 3/4" / StorzC	4x DN 65-80 / StorzB	3 x DN100 / StorzA
Return inlet	Flange / Storz	5 x 3/4" / StorzC	4x DN 65-80 / StorzB	3 x DN100 / StorzA
Return outlet	Flange / Storz	1 x 3/4" / StorzC	1x DN 100 / StorzA	1x DN 125 / Storz125
Operating pressure	Bar	6	10	10
Weight	kg	85	265	265
Dimensions (l x w x h)	mm	1200x800x1250	1340x1500x760	1340x1500x760

\* Connections individually configurable on request



## EXPANSION TANK

**acr expansion vessels** are mounted in a stable base frame and are available from 50 to 1000 litres. The compact dimensions and frame design mean that the modules can be positioned by hand or with a pallet truck, depending on the size. Quick couplings enable fast and easy integration.

**acr expansion vessels** are used in cold and hot water systems to compensate for temperature and pressure fluctuations in the system and to keep them constant.



# ACR-AD-110 to 1000 – Technical Specifications – Expansion Tank

## Optionally accessories

Cold Water  
TubesExt. Pump  
ModuleHeat  
Exchanger

Different requirements and applications can be provided on request!



## Technical description:

Diaphragm expansion vessel mounted on base frame. When the temperature in the system rises, the water expands. The expansion water is temporarily stored in the expansion vessel to keep the pressure in the system constant.

## Technical specifications:

Tank volume	L	110	200	250	500	1000
Max. medium temperature	°C	70	120	70	70	70
Max. operating pressure	Bar	6	6	6	6	6
Connections		Geka-Plugs	C	C	C	C
Transport weight	kg	81	95	61	95	202
Dimensions (l x w x h)	mm	700x780x1300	800 x 750 x 1780	910x810x1140	910x810x1570	1150x1200x2480

\* Connections individually configurable on request



## MIXING VALVES & OVERFLOW VALVES

### Mixing valves

**acr three-way mixing valves** are available with motor actuator, control cabinet and temperature controller in sizes DN40 to DN125. The compact dimensions and frame design mean that the modules can be positioned by hand or with a pallet truck, depending on the size. Quick couplings enable fast and easy connection.

**acr mixing valves** are used in cold and hot water systems to control the exact medium temperature.

### Overflow valves

**acr overflow valves** are available in sizes DN40 to DN80 and in a pressure range from 1 to 6 bar. The compact dimensions mean that the modules can be positioned by hand. Quick couplings enable fast and easy integration.

**acr overflow valves** are used in bypass lines to ensure the minimum flow rate, e.g. in a chiller.



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## ACR-UV-50 to 80 – Technical Specifications – Overflow Valve



### Optionally accessories

Cold Water  
Tubes



Ext. Pump  
Module



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical description:

Overflow valve as spring-operated differential pressure valve in compact design. Use in bypass lines to ensure minimum flow rate, e.g. in a chiller. The valve is mounted on a base frame with connections.

Extensive accessories are available as options.

### Technical specifications:

Valve size	DN	50	65	80
*Water connections	Storz	C	B	B
Nominal pressure	PN	6	16	16
Set pressure $\Delta p$	bar	1 – 3	2 - 5	1 – 3
KVS-value	m <sup>3</sup> /h	20	22	29
Dimensions (l x w x h)	mm	700x400x830	900x400x900	1100x400x900
Transport weight	kg	35	40	50

\* Connections individually configurable on request





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## ACR-3-WV-40 to 125 – Technical Specifications – 3-Way Mixing Valve



### Optionally accessories

Cold Water  
Tubes



Ext. Pump  
Module



Heat  
Exchanger



Different requirements and applications can be provided on request!

### Technical description:

Control valve in three-way design with actuator, control cabinet and connections mounted on base frame.

Extensive accessories are available as options.

### Technical specifications:

Valve size	DN	40	65	80	100	125
*Water connections	Storz	C	B	B	A	125
Nominal pressure	PN	16	16	16	16	16
Set pressure	bar	2,6	3,2	2,7	1,9	9,5
KVS-value	m3/h	25	63	100	160	250
Voltage	V/Hz/Ph	230/50/1	230/50/1	230/50/1	230/50/1	230/50/1
Electrical connection	Schuko Socket	230V	230V	230V	230V	230V
** Fuse protection	A	16	16	16	16	16
** Cable recommendation	mm <sup>2</sup>	2,5	2,5	2,5	2,5	2,5
Drive	V	0-10	0-10	0-10	0-10	0-10
Regulating time	Seconds	108	79	130	79	132
Dimensions (l x w x h)	mm	420x420x680	490x480x980	600x700x1370	710x790x1500	700x800x1820
Transport weight	kg	35	35	135	182	230

\* Connections individually configurable on request

\*\* On-Site power installation should be entrusted to an electrical specialist.





## FLEXIBLE LIQUID / COLD WATER HOSES & CONNECTIONS

Flexible **liquid/cold water hoses** for transporting liquids in sizes DN25 to DN125. The maximum permissible temperature range is  $-40^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$  with a maximum system pressure of 10 bar. The spiral-reinforced suction and pressure hoses come with Storz quick couplings or with flange couplings. Transitions to flange, Victaulic, Camlock or Bauer couplings are available as options.



## ACR – Hoses



### Flexible Liquid / cold water hoses:

Flexible, acid resistant hoses from DN 25 to DN125 standard available and suitable for temperatures from minus 30°C to plus 80°C, optionally to 120°C, at an operating pressure of up to 10 bar. By simply connecting the individual tubes any length can easily be configured. Thanks to the quick couplings, intermediate pieces, and flange transition pieces, all connection variants and distributions can easily be implemented.

### Technical specifications:

Outside diameter		Bend radius		Empty weight	Fill-up quantity (Water with 4°C)
[DN]	[mm]	[Zoll]	[mm]	[kg/m]	[l/m]
40	49	1 ½	230	1,3	1,13
50	63	2	300	1,9	2,04
65	76	2 ½	380	2,7	3,12
80	90	3	450	3,4	4,54
100	117	4	600	4,7	8,17
125	146	5	760	7	12,67





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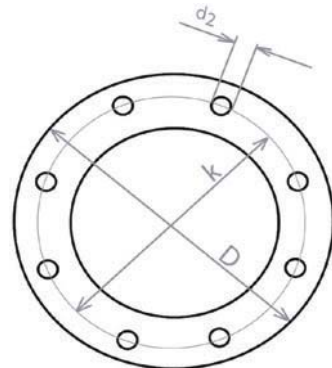


### Tube couplings and connections:

The acr couplings and adapters allow for a problem-free hydraulic combination of the individual components and makes the transport of fluids a straightforward matter. Acr has readily available all common quick couplings such as those from Bauer, Storz as well as intermediate pieces and transitions to flanges or Victaulic.

### Technical specifications:

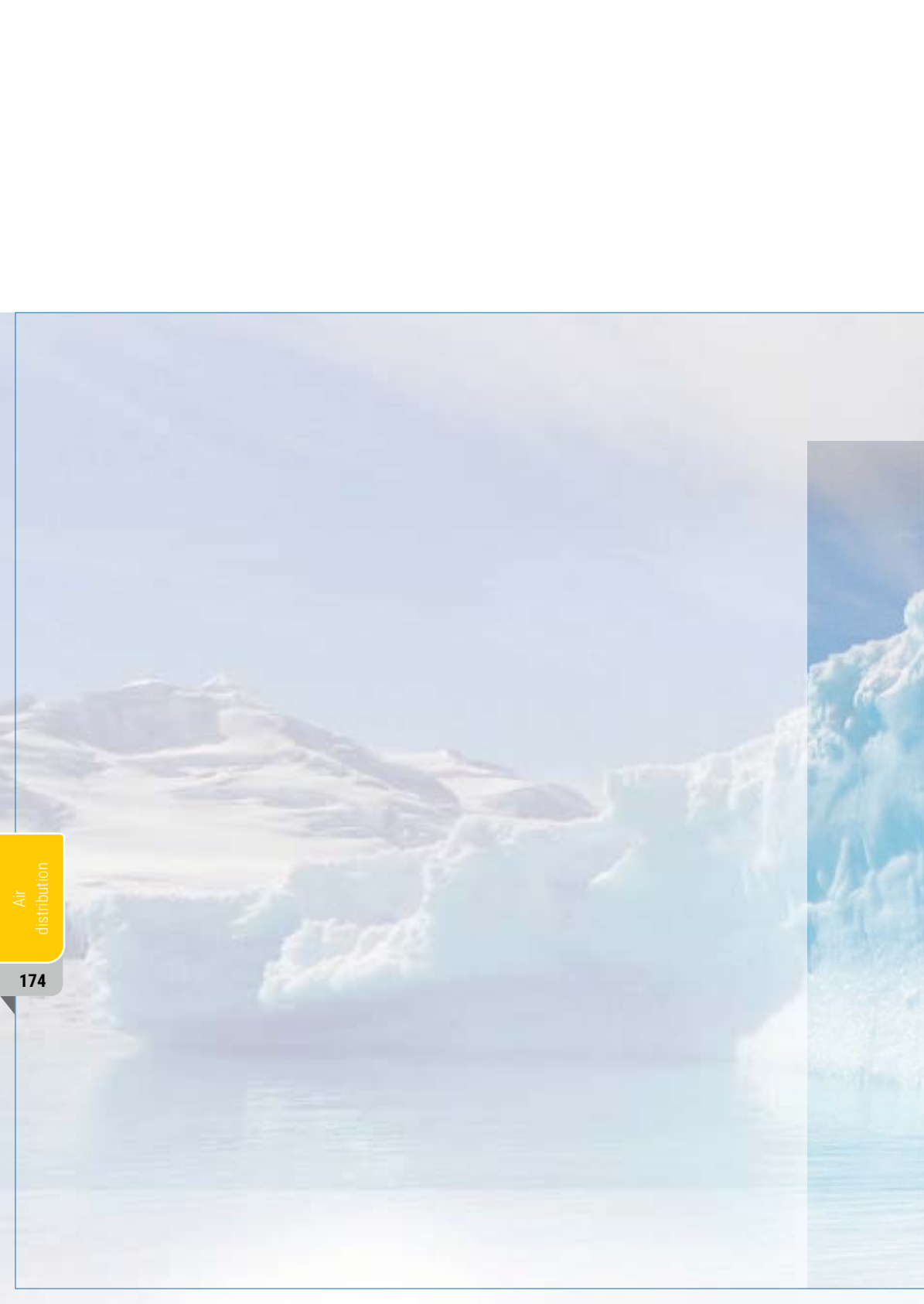
Storz	Distance between claws	Outside diameter couplings	Tube diameter
52-C	66 mm	98 mm	DN 40
75-B	89 mm	126 mm	DN 80
110-A	133 mm	182 mm	DN 100
125	148 mm	196 mm	DN 125

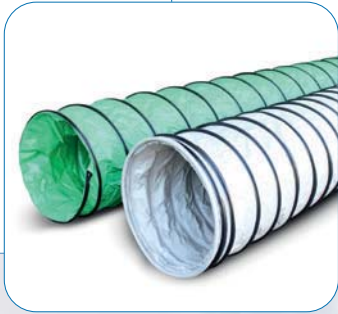


Flange	DIN PN 6				DIN PN 10/16			
	D	k	n	d2	D	k	n	d2
25	100	75	4	11	115	85	4	14
32	120	90	4	14	140	100	4	18
40	130	100	4	14	150	110	4	18
50	140	110	4	14	165	125	4	18
65	160	130	4	14	185	145	4	18
80	190	150	4	18	200	160	8	18
100	210	170	4	18	220	180	8	18
125	240	200	8	18	250	210	8	18
150	265	225	8	18	285	240	8	22
200	320	280	8	18	340	295	8/12	22
250	375	335	12	18	395/405	350/355	12	22/26

Hoses & connections

173





## AIR DISTRIBUTION

**Airtight and air-permeable hoses** for transporting and distributing cooled or heated air for draught-free and low-noise integration in all areas. The flexible textile/foil hoses are available from stock in diameters from 400 mm to 1000 mm and can be extended easily. The hoses do not contain any plasticisers and are therefore odourless.



## ACR – Air distribution



### Airtight tube

The flexible and airtight PVC coated Polyamide textile tubes for medium temperatures have an outside spring steel spiral. For the transportation of cold or warm air in mobile ventilation systems or air-to-air heat pumps. The field of application extends from tents, through office space to warehouse halls.



### Air distribution (Y divider, 90°/45° bended pipe)

Y divider, 90- /45- degree bended pipe, for banching and/or distribution of the air flow.



### Porous tube

Porous textile air tubes for the draught free and quiet transfer of the cooled or heated air. The flexible textile tubes are available with a diameter between 400 mm and 1000 mm. The individual tubes can be configured depending on the dynamic pressure of the ventilation device at the necessary lengths.





## ELECTRIC

### **Electrical cable**

Flexible single or multiple conductor cable of 1.5 mm<sup>2</sup> up to 240mm<sup>2</sup> for the connection of mobile devices and machines in dry and damp rooms as well as in the outdoors.

### **Power distributors**

Distribution cabinet in sturdy housing made of galvanised sheet steel. All fittings including the RCD circuit breaker are insulated.

### **Heating tape**

Self-limiting heating tape for pipe/hose trace heating including connection plug and temperature controller 26W/m at 10°C on the hose.

### **Remote monitoring**

GSM alarm module for the transmission of the status message of the acr rental machines around the clock.



## ACR – Electrical accessories

### Power cables

We keep flexible power cables for the acr rental park from 1.5 mm<sup>2</sup> to 240 mm<sup>2</sup> core cross-section ready for connecting mobile equipment and machines. They are suitable for moderate mechanical stresses in dry and damp rooms and for outdoor use.

#### Connection options:



Power-Lock



230V safety plug / CEE plug with 16A, 32A, 63A and 125A



Fixed connection with wire end ferrules



Fixed connection with cable lugs from 10 mm<sup>2</sup> to 240 mm<sup>2</sup>



### Power distributors

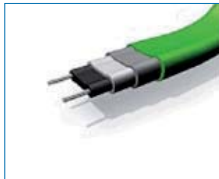
Distribution cabinet from 32A to 400A in sturdy housing made of galvanised sheet steel with weather-resistant powder coating in RAL 2000 yellow-orange and protection class IP 44 (operating front IP 21), swivel crane lugs and ergonomic handles. All fittings including the RCD circuit breaker are insulated. Galvanised base frame with plastic sleeves or galvanised lugs for ground nails for floor fixing.

Extensive accessories are available as options.



### Universal temperature controller

in damp-proof IP65 design, for recording the temperature on pipelines, including sensor.



### Heating tape

Self-limiting heating tape for pipe/hose trace heating including connection plug and temperature controller 26W/m at 10°C on the hose. The maximum heating circuit length is 85m. The external power supply is 230 V.



## ACR cable bridges – Technical Specifications



### Technical specifications:

Number of cable ducts	pieces	5
Maximum cable diameter	Ø mm	38
Vehicle load capacity	tonnes	40
Weight	kg	12
Dimensions (l x w x h)	mm	900x500x50

### Optionally accessories

#### Electrical Cables



Different requirements and applications can be provided on request!

### Technical description:

acr cable bridges are designed with 5 channels for cables with a diameter of 38mm each and offer a high load capacity of maximum 40 tons. They are made of high-quality recycled rubber and the lid in yellow signal colour is made of break-proof PE plastic. The integrated connection system allows the cable bridges to be extended as required. The cable bridges are suitable for various applications such as construction sites, warehouses and events.



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## acrOnlineControl®

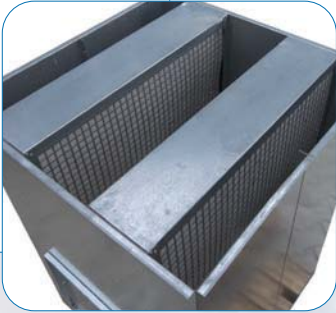


### acr Online Control remote monitoring via mobile data network

Available as a separate module for integration into rental units. Data and commands are always transmitted via the mobile network. The remote monitoring module monitors operation of the rental equipment around the clock. Depending on the model, settings can also be changed quickly via the corresponding module and faults can be both acknowledged and documented. If on-site troubleshooting is nevertheless required, the system analysis helps to deal with the problem. The service technician can then obtain the materials required for the repair in advance to keep machine downtime to a minimum. Integration is straightforward: by transmitting the data via the mobile network, there is no need to interfere with the customer's existing data network. There are therefore no concerns about data protection. Integration of the monitoring modules is available for most acr rental units as an option.

### Advantages:

- Monitoring of systems with automatic 24/7 alarm system.
- Minimises downtimes.
- Personal access to the encrypted, web-based user interface for the user and an acr specialist, with minimal access times to the system.
- Real-time information and system trends.
- Determination and documentation of capacity requirements.
- Improvement and optimisation of system control.
- Early detection of operational risks and reduction of unforeseen interruptions.
- Necessary service deployments are coordinated efficiently by means of remote diagnostics.



## SOUND REDUCTION

### **Compressor cabinet**

According to sound requirements, the acr chillers are optionally available with enclosed compressors which provide for a considerable sound reduction of up to 10 dB(A) at a distance of 5m.

### **Sound hood**

If the compressors are already enclosed, a sound hood can also be installed as an additional measure to reduce the sound of the axial ventilators. With the sound hood, that are installed over the ventilators, the sound pressure level can be reduced up to about 8dB(A).

### **Sound protection wall**

Consisting of prefabricated elements, which are form-locking. The element itself is made of laminated rock wool and is available in different sizes. Besides good sound absorption, the elements are flame retardant. Due to the low module weight the portable sound barriers can easily be transported and assembled. Already in the standard version the acr aggregates are extremely low sound levels in operation. These sound barriers – which also serve as blinds – provide an additional reduction of noise levels by up to 15 db(A).



## ACR – Sound reduction

### Compressor cabinet



The acr rental chillers are optionally available with enclosed compressors which provide for a considerable sound reduction of up to 10 dB(A) at a distance of 5m.

### Sound hood



A sound hood can also be installed as an additional measure to reduce the sound of the axial ventilators. With the sound hood, that are installed over the ventilators, the sound pressure level can be reduced up to about 8dB(A).



Sound propagation without sound hood



Sound propagation with sound hood



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### Sound protection wall

Consisting of prefabricated elements, which are form-locking. The element itself is made of laminated rock wool and is available in different sizes. Besides good sound absorption, the elements are flame retardant. Due to the low module weight the portable sound barriers can easily be transported and assembled. Already in the standard version the acr aggregates are extremely low sound levels in operation. These sound barriers – which also serve as blinds – provide an additional reduction of noise levels by up to 15 db(A).







## OTHER ACCESSORIES

### **Operating supplies**

For cold water temperatures  $< 4^{\circ}\text{C}$  or if there is a risk of frost, cooling brine is available for the liquid system and can be supplied in the required mixing ratio.

### **Cooling brine concentrate based on monoethylene or monopropylene glycol**

Long-term antifreeze concentrate with corrosion inhibitors as cooling brine or heat transfer fluid.

### **Cleaning module**

Cleaning module consisting of a cyclone separator and dirt filter.



## ACR – Other accessories



### **Operational materials:**

The operational materials of the rental machines such as chiller oil and refrigerants are reviewed by acr before delivery and/or at regular intervals. Operational materials necessary for the existing fluid system e.g. antifreeze (Monoethyl- or Propylene glycol) for cold water temperatures  $<4^{\circ}\text{C}$  or if frost is to be expected, and can be delivered in the required mixture ratio.

### **Cooling brine concentrate on the basis of Monoethyl-glycol:**

Long-term frost protection concentrate with corrosion inhibitors as a cooling brine and/or warmth carrier fluid. Cooling brine concentrate is completely mixable with water and is mixable with all antifreezes on basis of the Monoethyl-glycol. Frost protection from  $-9^{\circ}\text{C}$  (at 20% cooling brine concentrate) down to  $-40^{\circ}\text{C}$  (at 50% cooling brine concentrate).

### **Cooling brine concentrate on the basis of Monopropyl-glycol:**

Long-term frost protection concentrate with corrosion inhibitors as a cooling brine and/or warmth carrier fluid. Cooling brine concentrate is completely mixable with water and is mixable with all antifreezes on basis of the Monopropyl-glycol. Frost protection from  $-6^{\circ}\text{C}$  (at 20% cooling brine concentrate) down to  $-32^{\circ}\text{C}$  (at 50% cooling brine concentrate).

### **Special cooling brine media:**

For extremely low temperatures or in special applications salt-brine-mixtures can be delivered.



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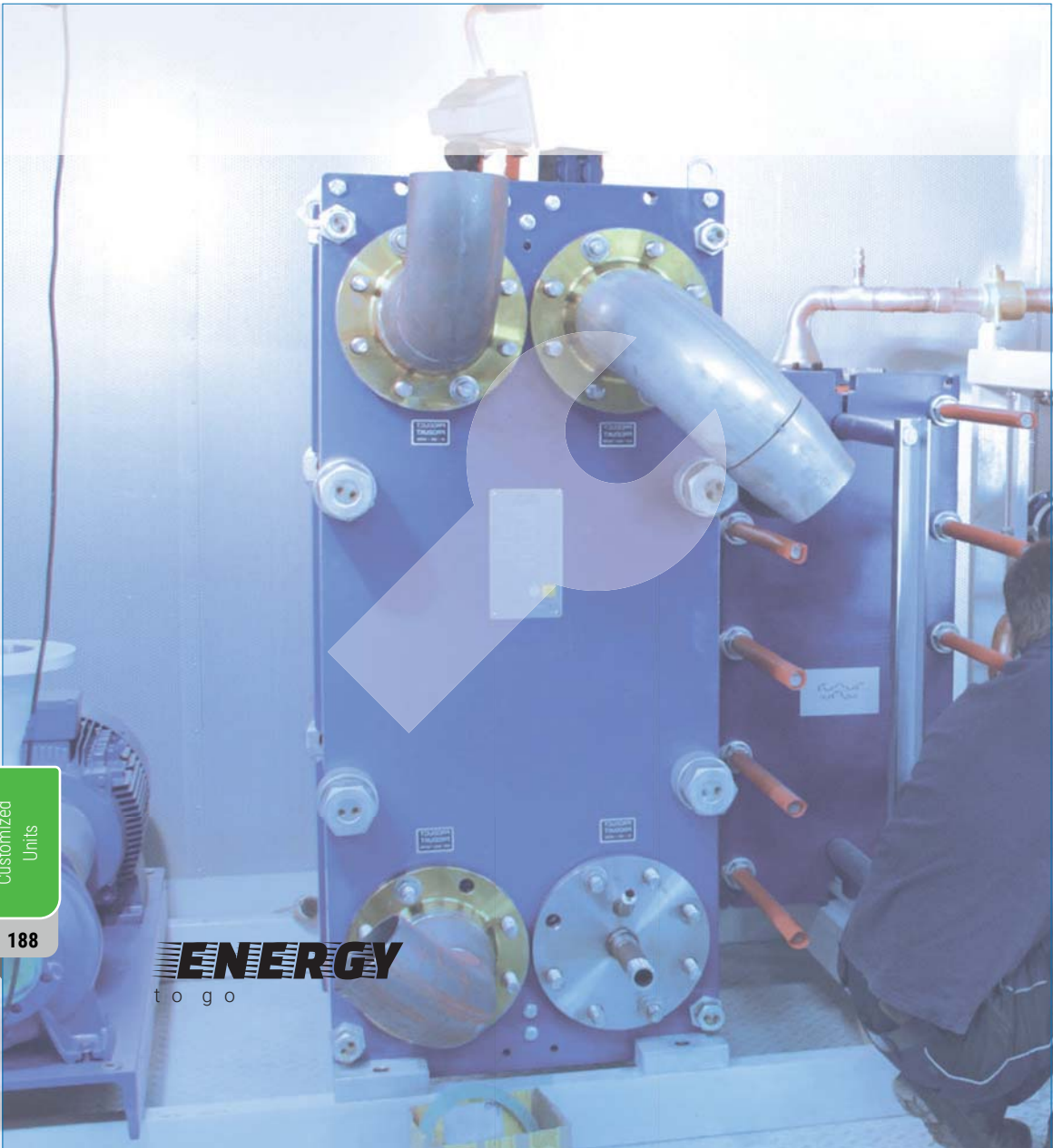


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### Cleaning module:

Cleaning module consisting of a cyclone separator and dirt filter. With the cyclone filter, sand and other solid particles can be separated from the water. Using the cyclone filter in water treatment thus filters out solid impurities. The water enters from the side through the cylindrical part. The angle of the water flow changes and exerts a centrifugal force. Solid parts that are heavier than water are thrown to the edge. Under gravity, they flow in a vortex into the cone, where they are separated out by the system. The purified water, on the other hand, rises to the top as a result of a suction process. The series strainers in parallel design including pressure gauge and gate valve ensure uninterrupted and effective cleaning.





# CUSTOMIZED UNITS

CUSTOMIZED UNITS

PAGE 190





## Customized Units

### Customized Units:

If none of the standard products in the range fulfil the requirements, acr chiller rent also have special plants in the rental program.

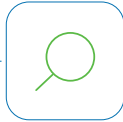
If the suitable product should not be on hand, acr can offer through its in-house special plant manufacturing, a customer-specific rental solution.



### Fields of application of the acr special plant manufacturing:

- Extremely quietly machines with a sound pressure level <math><50\text{dB(A)}</math> at 5 m distance
- Machines with extremely compact dimensions
- Extremely low temperature ranges down to - Large cooling systems with Turbo compressors and cooling capacities up to 4,500kW per unit
- Heat recovery-machines for process, heating- or hot water heating.
- External pump modules with single pumps or double pumps up to a delivery rate of - Hydraulics modules with plate heat exchangers and pump for system separation with flow rates up to

Customized Units



## SECOND HAND



ACR RENTAL FLEET

PAGE 192





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## Second hand

### ACR Rental Fleet

acr chiller rent has efficient and good as new machines available for rent. High customer satisfaction is based not in the least on the well-known reliability of our rental items. Therefore the modern acr rental park is constantly being re-equipped with new machines.

Some acr units have had no more than 100 hours of operation. At acr you have the opportunity to acquire a professionally certified refrigeration machine "like new" at the most favorable terms. Whether a used chiller, deep cooling chiller, dry cooler, heat pump or heat system – acr offers devices for the entire spectrum of refrigeration, air-conditioning and heating technology.

Please speak to us!







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# ENERGY

t o g o



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