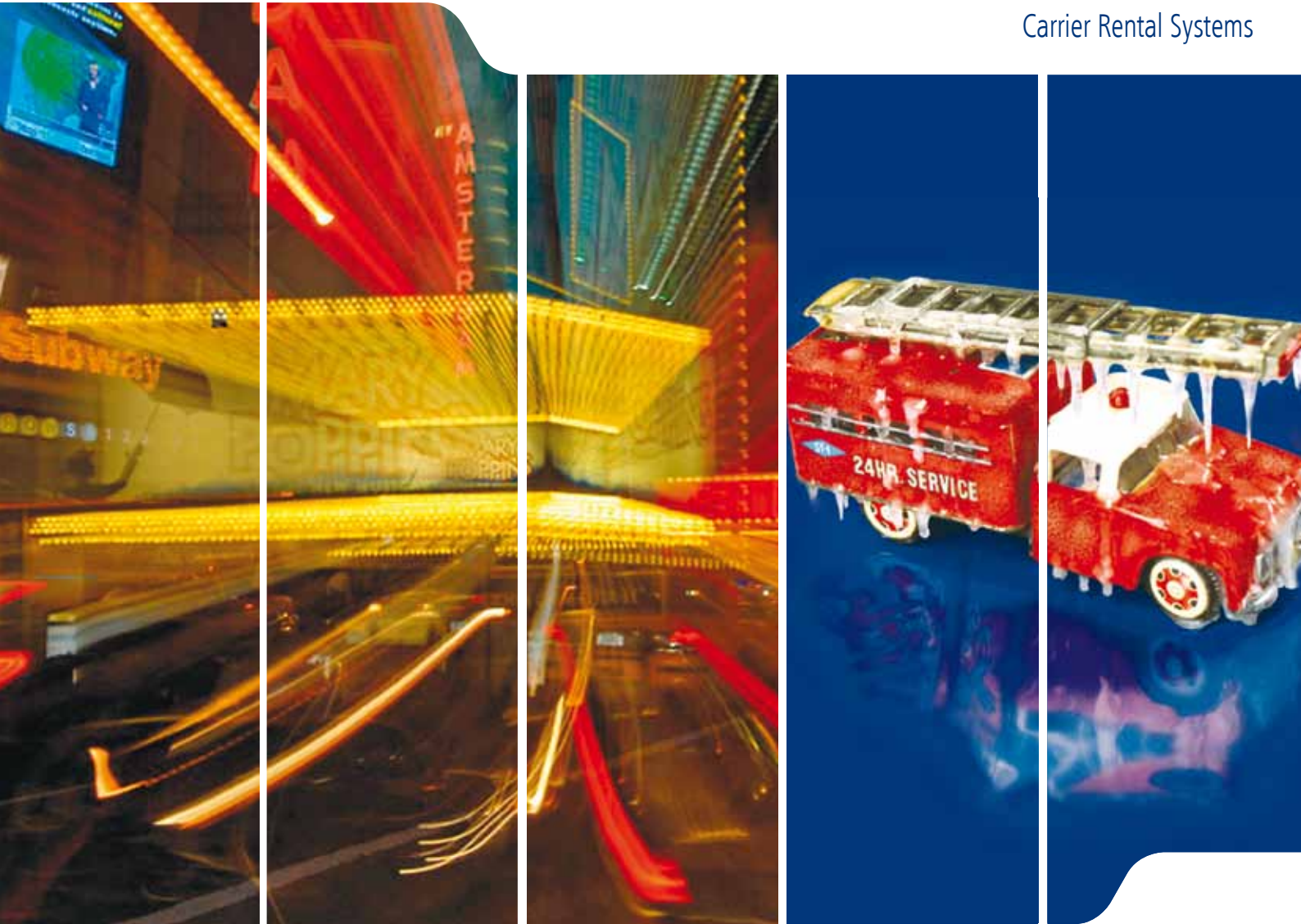




RENTAL SYSTEMS

Carrier Rental Systems



Rental of chillers, air conditioning, process cooling systems,
heaters, water pumps and generators

ABOUT COMPANY

Carrier Rental Systems specializes in the rental, installation and service of chillers, process cooling and air conditioning systems. We are part of the Carrier Group the world's leader in high-technology heating, ventilation and air conditioning (HVAC) solutions. We have been operating in Poland for 20 years, providing services in Poland and other countries. We work closely with Carrier Rental Systems branches throughout Europe.

OUR OFFER

- Chillers with cooling capacities from 15 to 1200 kW with integrated or external hydraulic module.
- Low temperature air handling units with automatic defrosting.
- Air handling units with capacities from 50 up to 500 kW.
- Industrial air conditioning assembly kits with unit cooling capacities from 20 to 200 kW.
- Portable air conditioners with capacities from 3.6 up to 7.3 kW.
- Rooftops heat pumps with capacities from 15 up to 120 kW.
- Power generators, transfer pumps, buffer tanks, hoses, plate heat exchangers, control solutions and accessories.

WHY RENTAL?

- Helps reduce investment costs to minimum.
- Guarantees monthly costs at a fixed, specified level.
- Allows to use the highest-quality equipment without having to purchase it.
- Reduces downtime costs resulting from scheduled modernizations or breakdowns.
- Offers a selection of appropriate equipment in real working conditions.
- Allows optimization of cooling processes depending on changing demands.

If you rent equipment from Carrier Rental Systems, you are offered a full package of extra services:

- Know-how and experience on how to select equipment according to conditions and needs.
- Complete equipment and accessories.
- High-class specialists in installation and service.
- Transport to the indicated sites.
- Possibility to exchange the equipment for another one during the rental period..

Rental ● Installation ● Service
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Chillers up to 40 kW



Technical details

Carrier chillers with heat pumps

		38UQZ007	30RQ/RB026	30RH050
Cooling capacity	kW	19	26	44
Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)				
Scroll compressors	No	1	1	2
Circuits	No	1	1	1
Min. water outlet temperature	°C	+5	+5	-10
Max. water inlet temperature	°C	+27	+30	+27
Max. water flow	liters/min.	125	132	240
Max. water pressure	bar	4	6	6
Water connection	Type	2" Bauer	2" Bauer	2" Bauer
Power connection	Type	32 A	32 A	63 A
Max. power capacity	kW	10	11	24.6
Voltage	V	360-440	360-440	360-440
Max. operating current draw	A	20	23	45,7
Sound pressure level at 10 m	dB(A)	45	46	49
Operating weight	kg	150	300	650
Width	mm	1350	1000	2100
Depth	mm	550	850	1100
Height	mm	1600	1850	1450

Optional accessories

Power cable	Typ	32 A	32 A	63 A
Water armoured hose	Typ	2" Bauer	2" Bauer	2" Bauer
Reduction	Typ	2" / DN50 PN16	2" / DN50 PN16	2" / DN50 PN16

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Chillers 40–100 kW



Technical details

Carrier chillers with heat pumps

		30RQS078	30RH100
Cooling capacity	kW	74	92
<small>Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)</small>			
Scroll compressors	No	2	3
Circuits	No	2	2
Min. water outlet temperature	°C	-12	-10
Max. water inlet temperature	°C	+27	+27
Max. water flow	liters/min.	330	348
Max. water pressure	bar	6	6
Water connection	type	2" Bauer	2" Bauer
Power connection	type	63 A	63 A
Max. power capacity	kW	35,8	49,6
Voltage	V	360-440	360-440
Max. operating current draw	A	73	91,9
Sound pressure level at 10 m	dB(A)	55	52
Operating weight	kg	590	1250
Width	mm	2110	2100
Depth	mm	1200	2300
Height	mm	1330	1450

Optional accessories

Power cable	type	63 A	125 A
Water armoured hose	type	2" Bauer	2" Bauer
Reduction	type	2" / DN50 PN16	2" / DN50 PN16

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Chillers 150 kW



Technical details

Carrier chillers with heat pumps

		30RA/RH160	30RQS160
Cooling capacity	kW	151/142	149
Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)			
Scroll compressors	No	4	4
Circuits	No	2	2
Min. water outlet temperature	°C	-10	-12
Max. water inlet temperature	°C	+27	+27
Max. water flow	liters/min.	546	550
Max. water pressure	bar	6	6
Water connection	type	2" Bauer	2" Bauer
Power connection	type	busbar	busbar
Max. power capacity	kW	79,6	71,6
Voltage	V	360-440	360-440
Max. operating current draw	A	144,8	146
Sound pressure level at 10 m	dB(A)	58	58
Operating weight	kg	1300-1400	1130
Width	mm	2100	2300
Depth	mm	2300	2300
Height	mm	1450	1450

Optional accessories

Power cable	type	per requirement	per requirement
Water armoured hose	type	2" Bauer	2" Bauer
Reduction	type	2" / DN50 PN16	2" / DN50 PN16

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Chillers 260 kW



Technical details

Carrier chillers with heat pumps

		30RB262	30RBP260
Cooling capacity	kW	263	261
Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)			
Scroll compressors	No	4	4
Circuits	No	2	2
Min. water outlet temperature	°C	-12	-12
Max. water inlet temperature	°C	+27	+27
Max. water flow	liters/min.	860	850
Max. water pressure	bar	6	6
Water connection	type	4" Bauer	4" Bauer
Power connection	type	busbar	busbar
Max. power capacity	kW	127	129
Voltage	V	360-440	360-440
Max. operating current draw	A	167/219	158/209
Sound pressure level at 10 m	dB(A)	57	58
Operating weight	kg	2500	1600
Width	mm	2500	2500
Depth	mm	2300	2300
Height	mm	2400	2400

Optional accesories

Power cable	type	per requirement
Water armoured hose	type	2"/ 4" Bauer
Reduction	type	4" / DN100 PN16

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Chillers 400-500 kW



Technical details

Carrier chillers with heat pumps

		30RB402	30XA452	30RB522
Cooling capacity	kW	391	438	506
Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)				
Scroll compressors	No	6	2	8
Circuits	No	2	2	2
Min. water outlet temperature	°C	-12	-12	0
Max. water inlet temperature	°C	+21	+21	+27
Max. water flow	liters/min.	1764	2214	1866
Max. water pressure	bar	10	10	10
Water connection	type	4" Bauer	4" Bauer	4" Bauer
Power connection	type	busbar	busbar	busbar
Max. power capacity	kW	191	185	255
Voltage	V	360-440	360-440	360-440
Max. operating current draw	A	251/329	240/303	334/438
Sound pressure level at 10 m	dB(A)	59	62	60
Operating weight	kg	3800	4900	4000
Width	mm	3650	4900	4900
Depth	mm	2350	2300	2300
Height	mm	2420	2420	2420

Optional accesories

	type	per requirement	per requirement	per requirement
Power cable	type	per requirement	per requirement	per requirement
Water armoured hose	type	4" Bauer	4" Bauer	4" Bauer
Reduction	type	4" / DN100 PN16	4" / DN100 PN16	4" / DN100 PN16

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Chillers 600 kW



Technical details

Carrier chillers with heat pumps

		30XA602	30XB600
Cooling capacity	kW	605	615
<small>Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)</small>			
Screw compressors	No	2	2
Circuits	No	2	2
Min. water outlet temperature	°C	-12	-12
Max. water inlet temperature	°C	+21	+21
Max. water flow	liters/min.	2700	2700
Max. water pressure	bar	10	10
Water connection	Typ	2 x 4" Bauer	2 x 4" Bauer
Power connection	Typ	busbar	busbar
Max. power capacity	kW	247	264
Voltage	V	360-440	360-440
Max. operating current draw	A	322/404	324/430
Sound pressure level at 10 m	dB(A)	62	59
Operating weight	kg	6400	5200
Width	mm	7200	7200
Depth	mm	2300	2300
Height	mm	2420	2420

Optional accesories

	type	per requirement	per requirement
Power cable	type	per requirement	per requirement
Water armoured hose	type	4" Bauer	4" Bauer
Reduction	type	4" / DN100 PN16	4" / DN100 PN16

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Chillers 1000 kW



Technical details

Carrier chillers with heat pumps

30XA1002

Cooling capacity	kW	960
Water entering/leaving temperature 12°C/7°C, outside air temperature 35° C (refrigerant 410A)		
Screw compressors	No	2
Circuits	No	2
Min. water outlet temperature	°C	-12
Max. water inlet temperature	°C	+21
Max. water flow	liters/min.	5034
Max. water pressure	bar	10
Water connection	Typ	2 x 4" Bauer
Power connection	Typ	busbar
Max. power capacity	kW	420
Voltage	V	360-440
Max. operating current draw	A	707
Sound pressure level at 10 m	dB(A)	68
Operating weight	kg	9200
Width	mm	9580
Depth	mm	2380
Height	mm	2500

Optional accesories

Power cable	type	per requirement
Water armoured hose	type	4" Bauer
Reduction	type	4" / DN100 PN16

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Mobile AHU



Technical details

		AquaAir	AHU 20	AHU 30
Max. air flow rate	m ³ /h	1950-3550	2050	3600
Fans	No	1	1	1
Air flow		frequency inverter	3-stage	3-stage
Air discharge		open	open	open
Water inlet/outlet	mm	3/4"	3/4"	1 1/4"
Water hose	dia	3/4"	3/4"	3/4"
Power supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
Rated current	A	12	12	12
Cooling capacity	kW	10-20	do 20	do 32
Sound pressure level at 10m	dB(A)	50	58	53
Operating weight	kg	20-29	60	129
Height	mm	700	1850	1850
Width	mm	700	580	720
Depth	mm	400	400	590

Optional accessories

Power cable	Typ	12A	16A	16A
Water armoured hose	Typ	3/4"	3/4"	3/4"

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Air Handling Units 50–500 kW



Technical details

		AHU 50	AHU 100	AHU 150	AHU 500
Max. air flow rate	m ³ /h	5 000	10 000	20 000	60 000
Fans	No	2	1	1	2
Air flow	frequency inverter	1	1	2	4
Duct available pressure	Pa	250	250	300	300
Air flow options	horizontal/vertical		horizontal	horizontal	horizontal
Air discharge	mm	500/600	1 x 600	2 x 500	1500 x 1500 mm / 4 x ø 600
Water inlet/outlet	mm	50	Bauer 50	50	DN100 PN16
Power supply	V-ph-Hz	230-1-50	400-3-50	400-3-50	415/3/50 + N & E
Rated current	A	16	32 A	32 A	63A
Max. power capacity	kW	4	4	11	24
Cooling capacity	kW	do 50	do 100	do 150	do 500
Sound pressure level at 7m	dB(A)	50	60	62	63
Operating weight	kg	390/460	450	685	2100
Height	mm	1850/2250 mm	1530	1600	2140
Width	mm	1500	1320	2300	2590
Depth	mm	750	2300	2150	3000

Optional accessories

Power cable	type	16 A	32 A	32 A	63 A
Air ducts	type	500/600 mm	500/600 mm	500 mm	500 mm
Water armoured hose	type	2" Bauer	2" Bauer	2" Bauer	4" Bauer

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Low temperature Air Handling Units



Technical details AHU50 LT

Cooling capacity	kW	55
Max . air flow rate	m ³ /h	14 700
Power supply	A	32 A
Defrost		electric
Power capacity	kW	12
Including electric heatres	kW	9
Dimensions	LxDxH (mm)	3100x1100x1400
Operating weight	kg	450
Water connection		2" Bauer
Sound pressure level at 10m	dB(A)	41
Cooling capacity calculated for:	Glycol	inlet/outlet 0/5 °C
	Air	inlet/outlet 15/7 °C

As a standard control panel for changing parameters of working conditions.

Optional accesories: water hoses 2", power cables, buffer tanks, distributors.

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Cooling towers, Heat exchanger



Technical details of Cooling Tower

CT1500

Designed capacity	kW	1500
Designed flow min/max	l/h	46 800 / 200 000
Designed temperatures IN/OUT	°C	41 / 33
Water connections IN/OUT/REFILL		6" / 8" / 2"
Water capacity	l	1500
Dimesion L x W x H	mm	3550 x 2400 x 3200
Weight	kg	3640
Voltage/Current	V/A	400 / 125

Technical details heat exchangers

10TEE-0300

TL10-BFM

Designed capacity	kW	500	250
Designed temperatures	Circuit 1 °C	6/18	7/12
	Circuit 2 °C	15/25	10/15
Fluids		water/glicol	water/glicol
Working pressure	bar	10	5
Connections		DN 100	DN 100
Weight	kg	420	300



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Portable air conditioners



Technical details

		AC 3.6	CRX 6.7	AHU 7.3
Max. air flow rate	m ³ /hour	330	1500	1700
Fans		2-stage	3-stage	2-stage
Working conditions	°C	do 40	10-40	16-35
Power supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
Electrical connection	A	12	12	12
Rated cooling/heating capacity	kW	3.2/2.0	6.7	7.3
Sound pressure at 3m	dB(A)	52	48	68
Weight	kg	45	86 + 16.5	98
Height	mm	900	1030	1245
Width	mm	450	815	620
Depth	mm	400	360	560
Outside unit	mm	-	360 x 582 x 460	-

Optional accessories

Air outlets	-	-	2 x 125 mm
Warm air ducts	100 mm	-	250/300 mm
Condensate tank	10 liters	-	20 liters
Glycol cables	-	5-30 m	-

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Air Conditioners (rooftop heat pump)



Technical details

		15	50	75	120
Cooling capacity	kW	14	46	70	110
Heating capacity	kW	18	69	75	121
Max. air flow rate	m ³ /h	2 700	10 100	14 500	20 000
Fans		2-stage	variable	variable	variable
Required temperature range	°C	5-40	5-40	5-40	5-40
Power supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50
Max. operating current draw	A	25	80	72	112
Sound pressure level at 7m	dB(A)	45	59	59	59
Operating weight	kg	170	1200	1475	2175
Height	mm	1200	1800	2000	2000
Width	mm	1300	2450	2600	3100
Depth	mm	1100	1800	2350	2400

Optional accessories

Power cable	Typ	32 A	63 A	63 A	125 A
Air ducts	Typ	400/500 mm	400/500 mm	400/500 mm	400/500 mm

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Textile ducts

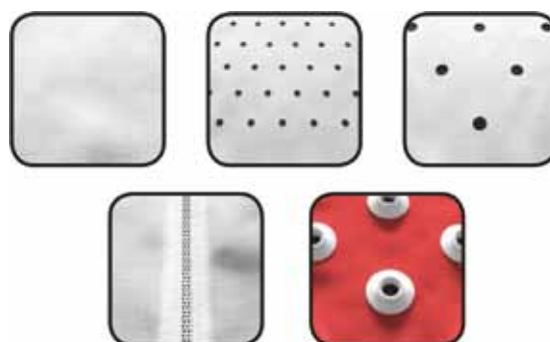


We offer a wide range of textile channels:

Textile ducts can be used in air transport or as diffusers that convey air over the entire area or partially, being adapted to specific needs. They are used in many industries, warehouses, public buildings and for the purpose of temporary events in halls and tents.

Methods of air distribution through textile ducts:

1. Through the permeable material
2. Through micro-perforation (from 0.2 to 0.4 [mm])
3. Through perforation (from 4 to 9 [mm])
4. Through the slots
5. Through long range nozzles



Textile diffusers are a versatile air distribution tool and can cover an entire spectrum of air supply methods.

Benefits of textile ducts:

COMPETITIVE PRICE: they are much cheaper than traditional galvanized insulated steel ducts.

WEIGHT: Textile ducts are much lighter than galvanized ducts.

HYGIENE: Washability and special fabrics allow you to maintain cleanliness, prevent the growth of bacteria or fungi.

EASY INSTALLATION: mounted on steel cable carriers attached to the walls. Duct sections (not longer than 5 m) are connected with a zipper. Disassembly involves unfastening the suspension ribbon from the steel cable and undoing the lock.

AESTHETIC VALUES: as standard we rent white, gray or black ducts. At the client's request, we can choose the color of the ducts according to the requirements.

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Boilers



Technical details

		250	250 Kompakt	500
Fuel		diesel	diesel	diesel
Heating capacity	kW	250	250	480
Required flow @ 85°C	m ³ /h	19,4	19,4	38,4
Efficiency	%	93	92	93
Fuel consumption	l/h	27,5	27,5	53,2
Max water pressure	bar	5,5	6	7
Voltage	V	230	400	400
Electrical connection	socket	16A	32A	32A
Sound pressure @ 10m	dB(A)	61	61	62
Fuel autonomy	h	36	36	18
Width	mm	1220	1210	2400
Długość	mm	4200	3380	4200
Height	mm	2400	2000	2400
Operating weight	kg	2750	2350	7500

Optional accessories:

Cables	type	16A 25 m	32A 25 m	32A 25 m
Flexible hoses	type	2" 10 m	2" 10 m	4" 10mv

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Water hoses/ pipes

Flexible 3/4"
 Rubber wire-armoured 2", 4", 6"
 Pipes PE
 Steel pipes

Hydraulic accessories

Miscellaneous connections
 Tees, reductions
 bends
 Shut-off , air valves
 Distributors
 Buffer tanks 150, 250, 300, 500, 1200, 3150 liters

Steel fuel tanks

1000 – 5000 liters

Air ducts

Flexible wire-armoured \varnothing 125, 250, 350, 400, 500, 600 mm
 Diffusers
 Air valves

Electric distribution panels

		DP630	DP2000	DP4800
Max. current	A	630	2000	4800
Protection type		NH3	NH3	Automat
Dimensions D x S x W	m	1,2 x 0,6 x 1,3	1,4 x 0,6 x 1,8	6,1 x 2,4 x 2,6

Electric cables / starters

Electric extension cords 20 m (16A, 32A, 63A)
 Cable rides
 Electric cables 25, 35, 70, 95, 120, 240 mm²
 Electric distributors 16A, 32A, 63A, 125A



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Transfer pumps



As a standard, we rent single-stage centrifugal pumps designed for pumping in food, chemical and plastic processing industries. Pumps of this type are characterized by a simple and durable construction. The maximum operating parameters of the pumps are capacity up to 138 m³/h and discharge pressure over 4.5 bar. They can be installed in systems where the system pressure is up to 10 bar.

We deliver pumps with an integrated contactor-starting kit. Integrated systems with a buffer tank are also available. Depending on the needs, we provide a dedicated automation solution necessary for the operation of pump systems.

Motor power/rpm	Pump type	Max. rise height	Max. capacity	Power supply	Bauer/DN connection
2.2 kW / 2900	S	22 m	34 m ³ /h	3-phase	2"/50 mm
2.2 kW / 2900	HH	31 m	20 m ³ /h	3-phase	2"/50 mm
4.0 kW / 2900	S	22 m	50 m ³ /h	3-phase	2"/50 mm
4.0 kW / 2900	HH	35 m	28 m ³ /h	3-phase	2"/50 mm
5.5 kW / 2900	S	35 m	42 m ³ /h	3-phase	2"/50 mm
5.5 kW / 2900	HH	47 m	30 m ³ /h	3-phase	2"/50 mm
7.5 kW / 2900	S	35 m	60 m ³ /h	3-phase	2"/50 mm
7.5 kW / 2900	HH	47 m	35 m ³ /h	3-phase	2"/50 mm
11 kW / 2900	S	38 m	138 m ³ /h	3-phase	4"/100 mm
15 kW / 2900	S	45 m	138 m ³ /h	3-phase	4"/100 mm

S - standard, HH – high head

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Technical details

		90 kVA	135 kVA	220 kVA
Power	kW	66	98	160
Voltage/Current	V/A	400/130	400/195	400-480/318
Frequency	Hz	50	50	50-60
Engine		JOHN DEERE	JOHN DEERE	JOHN DEERE
Alternator		LEROY SOMER	LEROY SOMER	LEROY SOMER
Fuel consumption – 75% load	l/h	16.1	23.4	37.6
Fuel tank capacity	l	527	527	860
Fuel autonomy – 75% load	h	31	18	18
Dimensions L x W x H	mm	2860 x 1191 x 2000	3520 x 1190 x 2120	
Operating weight	kg	2580	2720	3610
Terminal		busbar		
Available sockets		16A, 32A, 63A, 125A, 230V Schucoco		
Stand-by heating	32A	yes	yes	yes
battery charger	32A	yes	yes	yes

Accessories

Cables, transformers, loadbanks, frequency converters, distribution boards.

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Technical details

		1000 kVA	1250 kVA
Power	kW	800	1000
Voltage	V	400–480	400–480
Frequency	Hz	50-60	50-60
Engine		Deutz	Cummins
Alternator		Newage	Newage Stamford
Fuel consumption – 75% load	l/h	138	182
Fuel tank capacity	l	1500	750
Fuel autonomy – 75% load	h	9	4
Dimensions	mm	6060x2430x2590	6060x2430x2590
Operating weight	kg	18000	21000
Terminal		busbar	busbar

Optional accessories:

Stand-by heating system	32A	Yes	Yes
Battery charger	32A	Yes	Yes
External fuel tank connection		Yes	Yes
Spark arrestor		Yes	Yes

cables, transformers, loadbanks, frequency converters, distributors

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Transformers, Converters, Loadbanks



Transformer technical details

		TR250	TR1250	TR1600
Capacity	kVA	250	1250	1600
Primary voltage	V	400	400	400
Secondary voltage	V	230/500/690	6000	525/690
Circuit type /Connection	Busbar	DYN11 / M12	DYN5 / M12	YN / M12
Dimension	m	1,75x1x1,5	3x2,45x2,6	3x2,45x2,6
Weight	kg	1700	5000	3100

Technical details

frequency converters

loadbanks

		FC 800	FC 600	resistive	resistive/reactive
Capacity	kVA	800	600		375–6250
Capacity	kW			1000 – 7000	
Voltage In	V	400	400	380–690	380–690
Voltage Out	V	440 – 480	440 – 480	–	–
Frequency	Hz	60	60	50–60	50–60
Load control	Step load	–	–	yes	yes
Connections	Busbar	M12	M12	M12	M12
Dimension	m	6,1x2,4x2,6	6,1x2,4x2,6		
Weight	kg	21 000	17 000		

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Indirect oil heaters



Technical details

		CRS H50	CRS H70	CRS H75/110	CRS H150	CRS H170/200
Heating capacity	kW	47	70	75 lub 110	140	170 lub 200
Power supply	V/W	240 / 600	240 / 920	240 / 1800	240 / 3000	400 / 3000
Max air flow rate	m ³ /h	1800	3800	5500	10 000	10 500
Temperature rise	°C	65	65	60	65	65
Fuel consumption	l/h	4	7	7,5 or 11	13.5	19
Fuel tank	l	70	110	135	external	external
Operating weight	kg	60	165	149	300	540
Height	mm	1310	1920	1220	2250	2400
Width	mm	550	690	770	800	815
Depth	mm	1050	1170	2100	1700	1450

Optional accessories

Air ducts	250-600 mm
Textile air ducts	450-500 mm
Diffusors	adjustable
Electric cables	16-32 A
Thermostats	on cable
Fuel tanks	1000-5000 litres

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Electric heaters



Technical details

		CRS E3.3	CRS E18	CRS E22	CRS E75
Heating capacity	kW	0 – 1,6 – 3,3	0 - 9 - 18	0 - 11 - 22	0-15-30-45-60-75
Temperature rise		50° C	50° C	52° C	52° C
Power supply	V	230	400	400	400
Max air flow	m³/h	530	1440	2200	900-4500
Operating weight	kg	5.7	21	21	450
Height	mm	280	350	360	1570
Width	mm	270	405	550	750
Depth	mm	440	515	600	2200

Optional accessories

Air ducts	250-600 mm
Diffusors	adjustable
Electric cables	16-32-125 A
Thermostats	on cable

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- Refrigeration units for industrial plants, public buildings, offices, shopping centers in the period of increased demand for cooling power, for the time of failure removal, etc.



- Air conditioners and industrial air conditioning kits for offices, warehouses, shopping and logistics centers and production halls.



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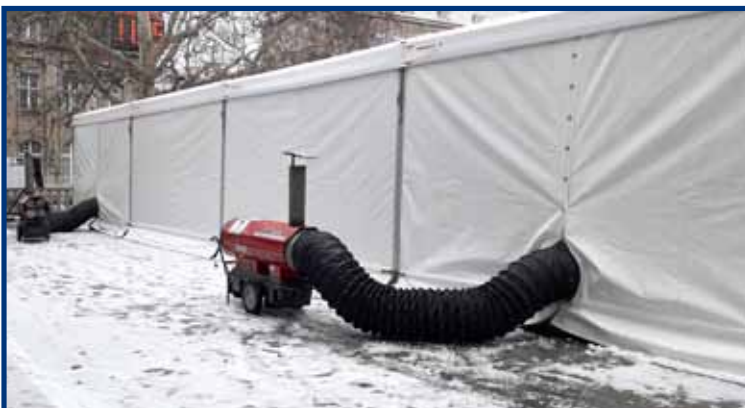
- Air conditioning systems for all kinds of events including business meetings conferences, sports, concerts, etc.



- Cooling units for industrial applications, warehouses, public buildings, offices, shopping centers in the period of increased demand for cooling power, for the time of breakdowns, etc.



- Air conditioners and industrial air conditioning kits for offices, warehouses, shopping and logistics centers and production halls.





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