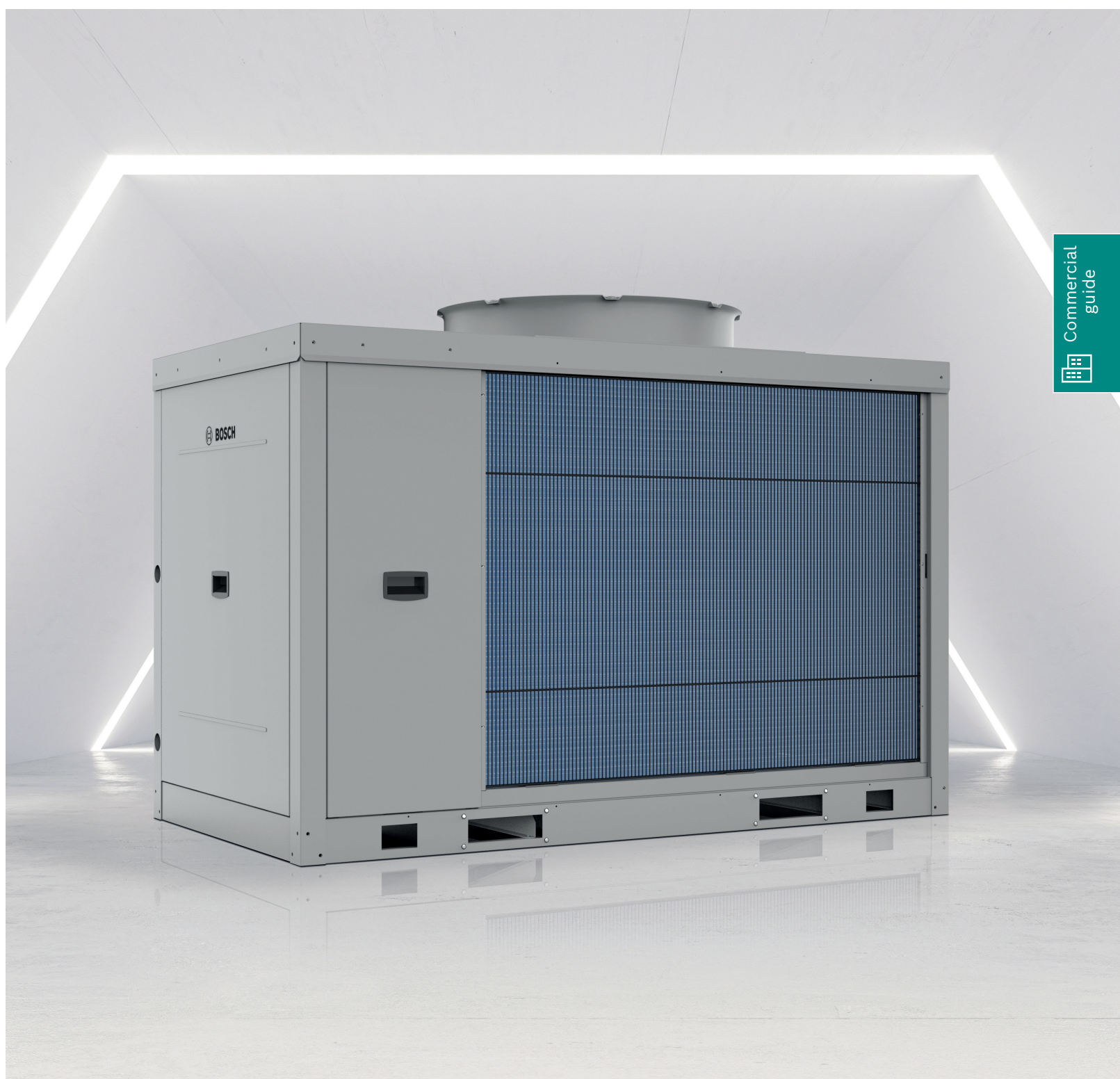


Invented for life



Compress 3000 AWP Air to Water Commercial Heat Pump

Our energy saving, efficient and sustainable heat pump,
perfect for stand-alone and hybrid applications.



Commercial
guide



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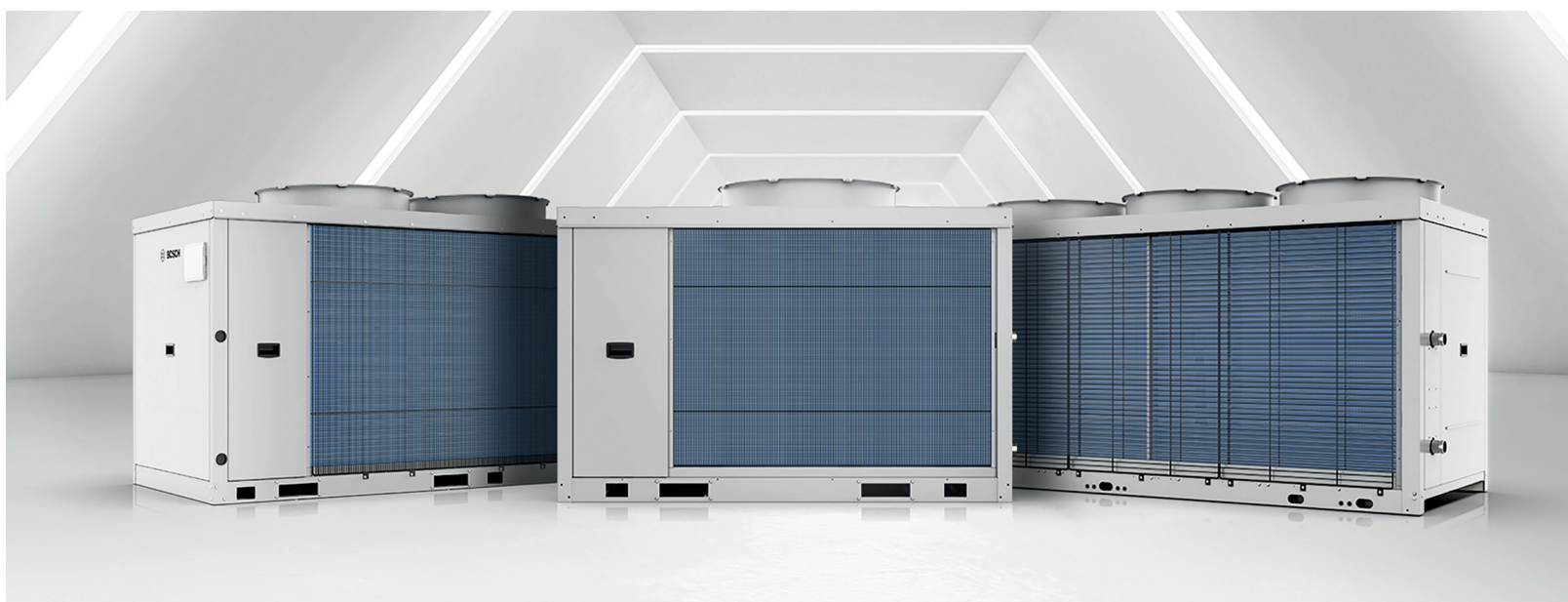
Product overview

Introducing our flexible, environmentally friendly heat pump

Our Compress 3000 AWP is a state-of-the-art commercial heat pump that is perfect for both existing and new build installations in commercial and multi-family dwelling properties.

Available in individual outputs ranging from 16kW to 89kW**, it can be cascaded up to 16 units to achieve an output of up to 1.42MW**. With 10 output capacities and the ability to be used for heating, domestic hot water and cooling, it is a versatile heat pump.

Straightforward to install and maintain, the Compress 3000 AWP can be used as standalone or as part of a hybrid system. The heat pump is available in four hydraulic variants making it quick and easy to install with existing heat sources such as gas and oil boilers.



Features and benefits



Available in 16kW to 89kW outputs and can cascade up to 16 units to achieve up to 1.42MW**



Ability to install on the roof where space is limited



Can provide hot water up to 60°C



10 different output capacities, making it is incredibly versatile for any commercial application



Operates as a standalone electric system or integrates with hybrid systems



Adjustable noise levels with four sound settings including silent mode



Can be utilised for heating, cooling and DHW



Operates in temperatures as low as -20°C for heating and as high as 48°C for cooling



Monitor energy use with our innovative controls



Full inverter driven compressor

*Terms and conditions apply. For full terms and conditions please visit: www.bosch-industrial.co.uk/guarantee-terms-and-conditions

** Under A-7/W35 conditions.

Environmentally friendly heating, reducing energy consumption



A sustainable heating solution

The Compress 3000 AWP operates with R32 refrigerant, which has a low Global Warming Potential of 675 and is a trusted solution to help meet carbon reduction targets. It is also designed with an inverter driven compressor, which reduces overall energy consumption and improves performance by modulating the compressor to meet the required demand and reducing energy waste. Therefore, installing this heat pump could help you achieve sustainability goals whilst maintaining a comfortable environment.

Built for quiet operation with four sound settings including silent mode, noise levels can be adjusted to suit its surroundings and your requirements.

- ▶ Operates with R32 refrigerant for reduced global warming potential
- ▶ Low carbon solution
- ▶ Perfect for decarbonisation and modernisation projects



High performance with proven efficiency

Our commercial heat pump offers sustainable heating for high output applications with an efficiency rating of A++, has a high Seasonal Coefficient Of Performance (up to 4.41 at A7/W35) and Energy Efficiency Ratio (up to 3.1 at A35/W7).

It is also proven to reliably operate in outside temperatures as low as -20°C in heating mode and as high as 48°C in cooling mode making it efficient in UK climates.

- ▶ High seasonal performance SCOP (up to 4.41 at A7/W35)
- ▶ EER (up to 3.1 at A35/W7)
- ▶ A++ Efficiency



Contact us to book your free, no obligation project consultation and site visit.



Website: bosch-industrial.co.uk/CS3000



Phone: **03330 608 456**

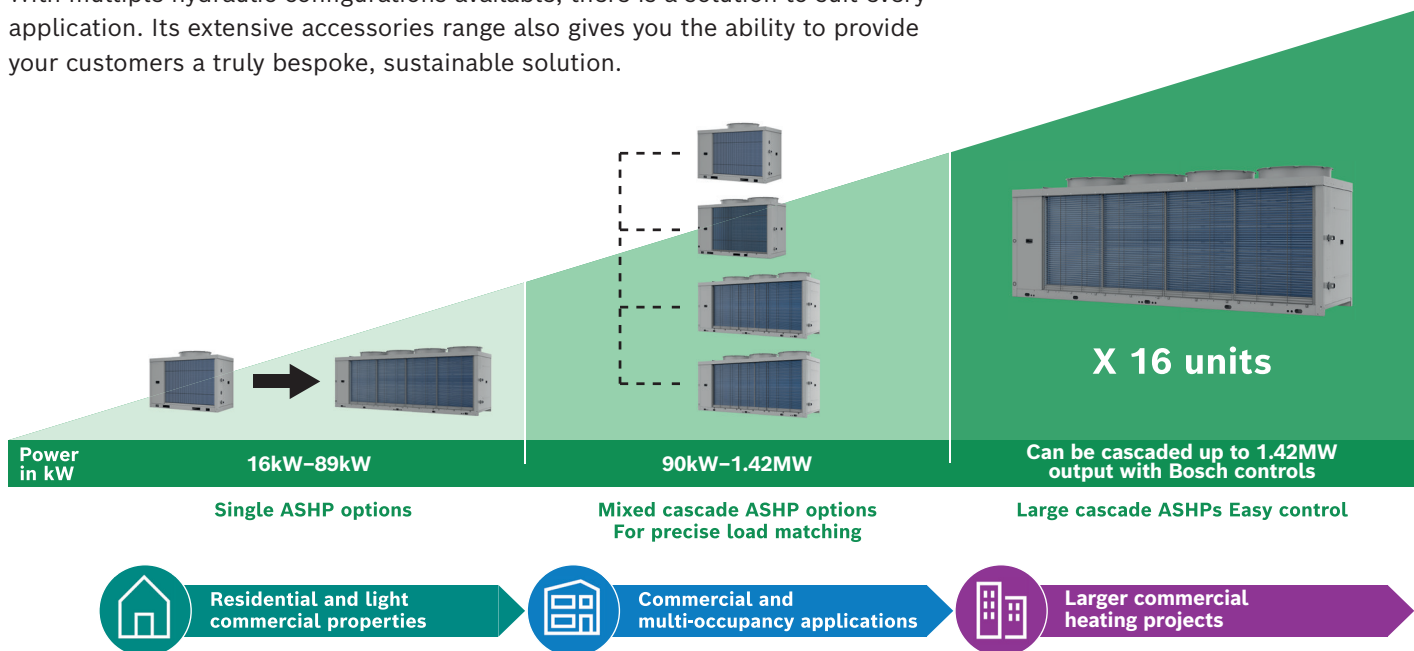


Email: commercial.industrial@uk.bosch.com

Unparalleled flexibility, providing tailored solutions

Our Compress 3000 AWP's wide output range from 16kW to 89kW* and the ability to cascade up to 16 units to achieve up to 1.42MW* means it provides an effective solution for many commercial properties. The fact that it can be used as a standalone and a hybrid solution further enhances its flexible capabilities.

With multiple hydraulic configurations available, there is a solution to suit every application. Its extensive accessories range also gives you the ability to provide your customers a truly bespoke, sustainable solution.

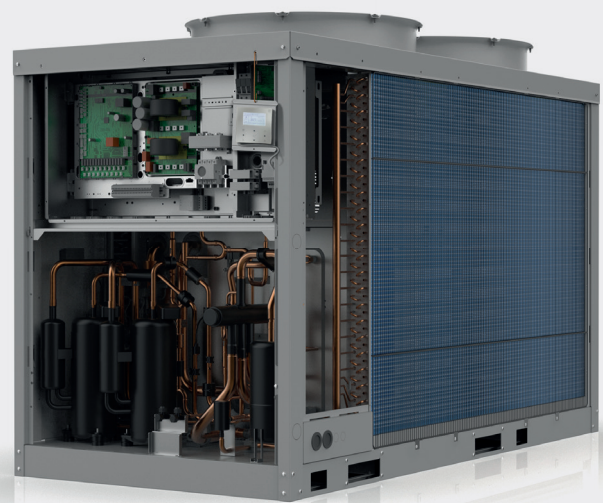


*Under A-7/W35 conditions.

Straight forward installation and maintenance

Installation of the heat pump is simple as all four hydraulic variants come prefabricated meaning less work onsite and reduced installation time. The unit is also built for easy access for ongoing maintenance.

Set up and adjustment of the heat pump is seamless with the use of our controls. The controls are also easily accessible and can be placed in a convenient location for your customer.



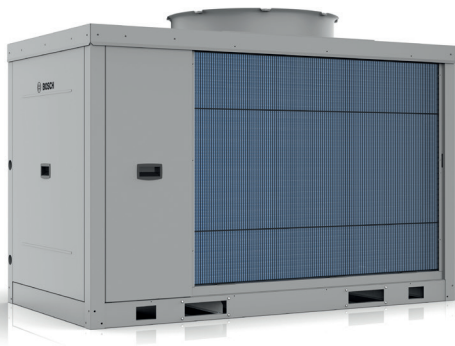
Hybrids made simple

The Compress 3000 AWP is a great addition to a pre-existing heating system. It detects the most economical and environmentally friendly combination based on outside temperatures to give you the most sustainable solution.

It is the perfect solution for increasing a property's energy efficiency without replacing the entire heating system, reducing costs and disruption. Its ability to further integrate into building management systems empowers building service professionals to track energy usage.

Hybrid example

1. Compress 3000 AWP



2. Condens 7000 WP gas boiler



3. Storage tank



Compress 3000 AWP part numbers

Standard units

Description	Part number	Chassis size
CS3000 AWP 16kW	8-738-213-956	1
CS3000 AWP 19kW	8-738-213-957	1
CS3000 AWP 24kW	8-738-213-958	1
CS3000 AWP 31kW	8-738-213-959	2
CS3000 AWP 36kW	8-738-213-960	2
CS3000 AWP 41kW	8-738-213-961	2
CS3000 AWP 53kW	8-738-213-962	3
CS3000 AWP 59kW	8-738-213-963	3
CS3000 AWP 75kW	8-738-213-964	4
CS3000 AWP 89kW	8-738-213-965	4

Units with integrated pump

Description	Part number	Chassis size
CS3000 AWP 16kW P	8-738-213-966	1
CS3000 AWP 19kW P	8-738-213-967	1
CS3000 AWP 24kW P	8-738-213-968	1
CS3000 AWP 31kW P	8-738-213-969	2
CS3000 AWP 36kW P	8-738-213-970	2
CS3000 AWP 41kW P	8-738-213-971	2
CS3000 AWP 53kW P	8-738-213-972	3
CS3000 AWP 59kW P	8-738-213-973	3
CS3000 AWP 75kW P	8-738-213-974	4
CS3000 AWP 89kW P	8-738-213-975	4

Units with integrated buffer vessel

Description	Part number	Chassis size
CS3000 AWP 16kW MB	8-738-213-976	1
CS3000 AWP 19kW MB	8-738-213-977	1
CS3000 AWP 24kW MB	8-738-213-978	1
CS3000 AWP 31kW MB	8-738-213-979	2
CS3000 AWP 36kW MB	8-738-213-980	2
CS3000 AWP 41kW MB	8-738-213-981	2
CS3000 AWP 53kW MB	8-738-213-982	3
CS3000 AWP 59kW MB	8-738-213-983	3
CS3000 AWP 75kW MB	8-738-213-984	4
CS3000 AWP 89kW MB	8-738-213-985	4

Please contact your local Key Account Manager for availability of the chassis 3 and 4 heat pumps.

Units with integrated DHW 3-way valve

Description	Part number	Chassis size
CS3000 AWP 16kW S	8-738-213-986	1
CS3000 AWP 19kW S	8-738-213-987	1
CS3000 AWP 24kW S	8-738-213-988	1
CS3000 AWP 31kW S	8-738-213-989	2
CS3000 AWP 36kW S	8-738-213-990	2
CS3000 AWP 41kW S	8-738-213-991	2
CS3000 AWP 53kW S	8-738-213-992	3
CS3000 AWP 59kW S	8-738-213-993	3
CS3000 AWP 75kW S	8-738-213-994	4
CS3000 AWP 89kW S	8-738-213-995	4

Units with marine coil

Description	Part number	Chassis size
CS3000 AWP 16kW C	8-738-214-026	1
CS3000 AWP 19kW C	8-738-214-027	1
CS3000 AWP 24kW C	8-738-214-028	1
CS3000 AWP 31kW C	8-738-214-029	2
CS3000 AWP 36kW C	8-738-214-030	2
CS3000 AWP 41kW C	8-738-214-031	2
CS3000 AWP 53kW C	8-738-214-032	3
CS3000 AWP 59kW C	8-738-214-033	3
CS3000 AWP 75kW C	8-738-214-034	4
CS3000 AWP 89kW C	8-738-214-035	4

Units with integrated pump and marine coil

Description	Part number	Chassis size
CS3000 AWP 16kW PC	8-738-213-996	1
CS3000 AWP 19kW PC	8-738-213-997	1
CS3000 AWP 24kW PC	8-738-213-998	1
CS3000 AWP 31kW PC	8-738-213-999	2
CS3000 AWP 36kW PC	8-738-214-000	2
CS3000 AWP 41kW PC	8-738-214-001	2
CS3000 AWP 53kW PC	8-738-214-002	3
CS3000 AWP 59kW PC	8-738-214-003	3
CS3000 AWP 75kW PC	8-738-214-004	4
CS3000 AWP 89kW PC	8-738-214-005	4

Units with integrated buffer vessel and marine coil

Description	Part number	Chassis size
CS3000 AWP 16kW MBC	8-738-214-006	1
CS3000 AWP 19kW MBC	8-738-214-007	1
CS3000 AWP 24kW MBC	8-738-214-008	1
CS3000 AWP 31kW MBC	8-738-214-009	2
CS3000 AWP 36kW MBC	8-738-214-010	2
CS3000 AWP 41kW MBC	8-738-214-011	2
CS3000 AWP 53kW MBC	8-738-214-012	3
CS3000 AWP 59kW MBC	8-738-214-013	3
CS3000 AWP 75kW MBC	8-738-214-014	4
CS3000 AWP 89kW MBC	8-738-214-015	4

Units with integrated DHW 3-way valve and marine coil

Description	Part number	Chassis size
CS3000 AWP 16kW SC	8-738-214-016	1
CS3000 AWP 19kW SC	8-738-214-017	1
CS3000 AWP 24kW SC	8-738-214-018	1
CS3000 AWP 31kW SC	8-738-214-019	2
CS3000 AWP 36kW SC	8-738-214-020	2
CS3000 AWP 41kW SC	8-738-214-021	2
CS3000 AWP 53kW SC	8-738-214-022	3
CS3000 AWP 59kW SC	8-738-214-023	3
CS3000 AWP 75kW SC	8-738-214-024	4
CS3000 AWP 89kW SC	8-738-214-025	4

Accessories

Dirt traps/Strainers

Description	Part number	Chassis size
Dirt trap/Strainer 16-24	8-738-214-116	1
Dirt trap/Strainer 31-59	8-738-214-117	2 & 3
Dirt trap/Strainer 75-89	8-738-214-118	4

Anti-vibration mounts

Description	Part number	Chassis size
Anti-vibration mounts 16-24	8-738-214-119	1
Anti-vibration mounts 31-41 (Chassis 1 with Buffer)	8-738-214-120	1 & 2
Anti-vibration mounts 53-59	8-738-214-121	3
Anti-vibration mounts 75-89	8-738-214-122	4
Anti-vibration mounts 31-41 (with buffer)	8-738-214-123	2
Anti-vibration mounts 53-59 (with buffer)	8-738-214-124	3
Anti-vibration mounts 75-89 (with buffer)	8-738-214-125	4

Protection grilles

Description	Part number	Chassis size
Protection grille 16-24	8-738-214-133	1
Protection grille 31-41	8-738-214-134	2
Protection grille 53-59	8-738-214-135	3
Protection grille 75-89	8-738-214-136	4

Please contact your local Key Account Manager for availability of the chassis 3 and 4 heat pumps.




Anti-seismic mounts

Description	Part number	Chassis size
Anti-seismic mounts 16-24	8-738-214-126	1
Anti-seismic mounts 31-41 (Chassis 1 with buffer)	8-738-214-127	1 & 2
Anti-seismic mounts 53-59	8-738-214-128	3
Anti-seismic mounts 75-89	8-738-214-129	4
Anti-seismic mounts 31-41 (with buffer)	8-738-214-130	2
Anti-seismic mounts 53-59 (with buffer)	8-738-214-131	3
Anti-seismic mounts 75-89 (with buffer)	8-738-214-132	4

Condensation drain pan heaters

Description	Part number	Chassis size
Condensate drain pan heater 16-24	8-738-214-139	1
Condensate drain pan heater 31-41	8-738-214-140	2
Condensate drain pan heater 53-59	8-738-214-141	3
Condensate drain pan heater 75-89	8-738-214-142	4

Technical data

		 Chassis 1			 Chassis 2			 Chassis 3	
Product Description	Compress 3000 AWP	16	19	24	31	36	41	53	59
Heating	Max. Output @A-10/W35 (kW) ¹	14.95	18.65	21.67	30.65	33.22	35.92	46.65	56.69
	Max. COP @A-10/W35 ¹	2.64	2.59	2.53	2.75	2.69	2.59	2.59	2.46
	Max. Output @A-7/W35 (kW) ¹	15.4	18.8	23.1	29.4	33.7	39.8	51.6	61.0
	Max. COP @A-7/W35 ¹	2.85	2.76	2.71	2.86	2.85	2.73	2.79	2.67
	Max. Output @A2/W35 (kW) ¹	22.49	25.22	30.85	39.72	46.80	52.1	69.20	74.3
	Max. COP @A2/W35 ¹	3.62	3.35	3.18	3.45	3.36	3.25	3.59	3.41
	Max. Output @A7/W35 (kW) ¹	25.38	30.00	35.78	49.95	54.15	62.2	78.4	87.40
	Max. COP @A7/W35 ¹	4.4	4.2	4.1	4.4	4.2	4.0	4.57	4.2
	SCOP @ W35 av. climate ¹	4.41	4.36	4.31	4.33	4.33	4.28	4.26	4.21
	SCOP @ W55 av. climate ¹	3.24	3.22	3.18	3.24	3.19	3.16	3.19	3.18
	ηSh @ W35 av. climate ^{1*}	173%	172%	169%	170%	170%	168%	167%	165%
	ηSh @ W55 av. climate ^{1*}	127%	126%	124%	126%	125%	124%	125%	124%
	Space heating efficiency class HT	A++	A++	A+	A++	A++	A+	A++	A+
	Energy efficiency class HP LT	A++	A++	A++	A++	A++	A++	A++	A++
	Max. flow temperature	60°C (@ A-4)			60°C (@ A-4)			60°C (@ A-2)	
Cooling	Max. flow temperature at A-20	45°C			45°C			45°C	
	Operating limits outdoor temp.	Until - 20°C			Until - 20°C			Until - 20°C	
	Max. Output @ A35/W18 (kW) ¹	33,20	37,10	41,90	63,70	69,9	79,6	98,9	110,64
	Max. EER @ A35/W18 ¹	3,88	3,65	3,32	3,91	3,64	3,19	4,00	3,67
	Max. Output @ A35/W7 (kW) ¹	23.29	25.8	29.3	42.5	48.2	55.03	68.6	78.8
	Max. EER @ A35/W7 ¹	3.11	2.84	2.78	3.02	2.95	2.75	2.99	2.8
	Operating limit outdoor temp.	Up to 48°C			Up to 48°C			Up to 48°C	
	Minimum supply temperature	0°C			0°C			0°C	
	Compressor type	Rotary inverter			Rotary inverter			Scroll inverter	
	No of compressors/circuits	1/1			2/1			2/1	
System	Dimensions (WxDxH mm)**	1005x1920x1340			1060x2274x1480			1100x3300x1510	
	Weight (kg)	309			609			787	
	IP rating	IP45			IP45			IP45	
	Connection type	Victualic 1" 1/2			Victualic 2"			Victualic 2"	
	Minimum flow (l/s)	0.9			1.8			2.9	
	Maximum flow (l/s)	2.6			5.0			6.4	
	Minimum system volume for defrost (l)	200			400			650	
	Minimum/maximum water operating temp. (cooling/heating mode) °C	0/60			0/60			0/60	
	Max. operating water pressure (bar)	6			6			6	

¹ Performance data in accordance with EN 14511² Fuse characteristics gL/C³ GWP₁₀₀=675 for R32⁴ acc. to Reg. (EU) No 811/2013⁵ Sound power level in accordance with EN12102 (Nominal output with A7/W55)

*Seasonal space heating energy efficiency

**Dimensions excluding packaging

		Chassis 1			Chassis 2			Chassis 3	
Product Description	Compress 3000 AWP	16	19	24	31	36	41	53	59
Refrigerant	Refrigerant ³	R32			R32			R32	
	Refrigerant charge (kg)	7.9			14			17.5	
	CO ₂ (e) ton	5.3			9.5			11.8	
	Maximum operating pressure (bar)	42			42			42	
	Minimum operating pressure (bar)	1.4			1.4			1.4	
Noise	Sound pressure level at distance of 1m ⁴ (dBA)	57	60	60	57	57	61	59	64
	Max sound power. (dBA) ⁵	75	78	78	75	75	80	78	83
	Max sound power silent. (dBA)	72	77	77	74	74	79	77	80
	Max sound power super silent (dBA)	70	75	75	71	71	75	75	78
Electric Supply Information	Power supply	380-415V 3N~ 50Hz			380-415V 3N~ 50Hz			380-415V 3N~ 50Hz	
	Maximum current (A)	20			40,5			59	
	Startup current (A)	10			20,25			29,5	
	Recommended circuit breaker/fuse (A) ²	25			50			63	
	Performance factor cos φ with maximum output	0,94			0,94			0,93	

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