

TECHNICAL DATA SHEET

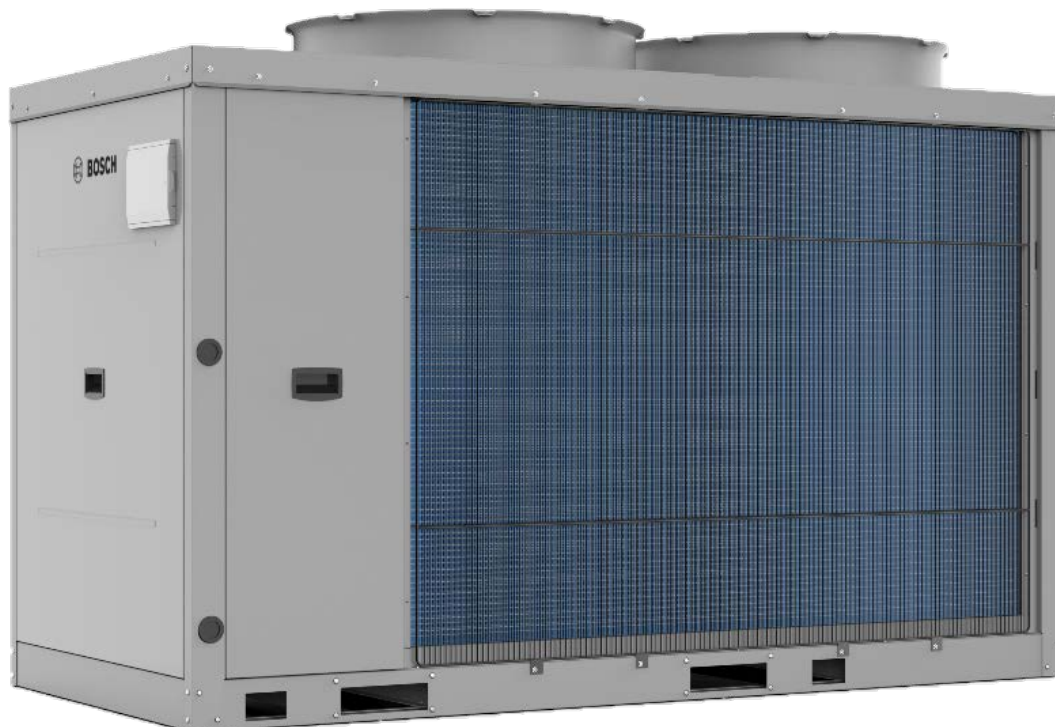
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PRODUCT: Compress 3000 AWP Commercial heat pump – Chassis 2



- Individual outputs ranging from 31 kW to 41 kW (**A-7/W35**)
- Model variants include, with pump, buffer, 3-way DHW valve and anti-corrosion coating.
- Up to 16 units can be cascaded to provide an output of up to 637 kW (**A-7/W35**)
- R32 Refrigerant with a GWP of 675
- Inverter driven compressors
- Fully reversible allowing for heating and cooling
- Modbus RTU interface as standard
- Volt-free run signal or 0-10V/4-20mA temperature setpoint
- Four selectable noise modes, **Normal**, **Silent**, **Super silent**, and **Night**.

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Product naming structure

Example 1 – Standard



Example 2 – Variant



Variants

P = With integrated pump ([Grundfos CME 10-1](#))

MB = With integrated buffer vessel and pump

S = With integrated 3-way hot water priority valve and pump

C = With marine coil (anti-corrosion)

PC = With integrated pump and marine coil

MBC = With integrated buffer vessel, pump, and marine coil

SC = With integrated 3-way hot water priority valve, pump, and marine coil

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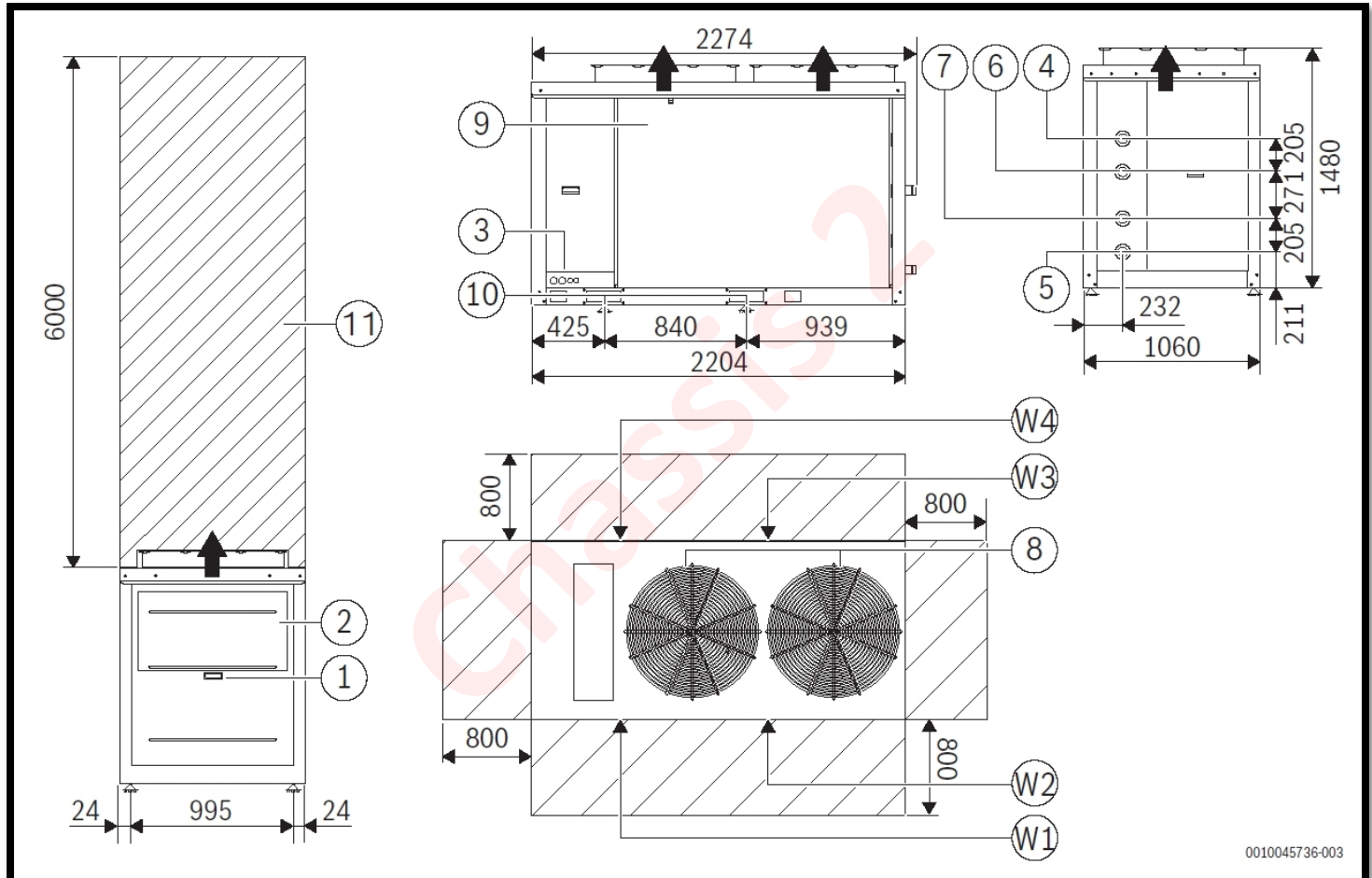
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Dimensions and clearances



- | | |
|---|---|
| 1. Compressor compartment | 7. Outlet water connection 2" Victaulic |
| 2. Electrical panel | 8. Brushless electric fan |
| 3. Power input | 9. External exchanger (Evaporator) |
| 4. Inlet water connection 2" Victaulic | 10. Unit fixing holes |
| 5. Outlet water connection 2" Victaulic | 11. Functional spaces (clearance) |
| 6. Inlet water connection 2" Victaulic | |

➤ Unit footprint and volume

Footprint

- 2.34 m² per unit

Volume

- 3.46 m³ per unit

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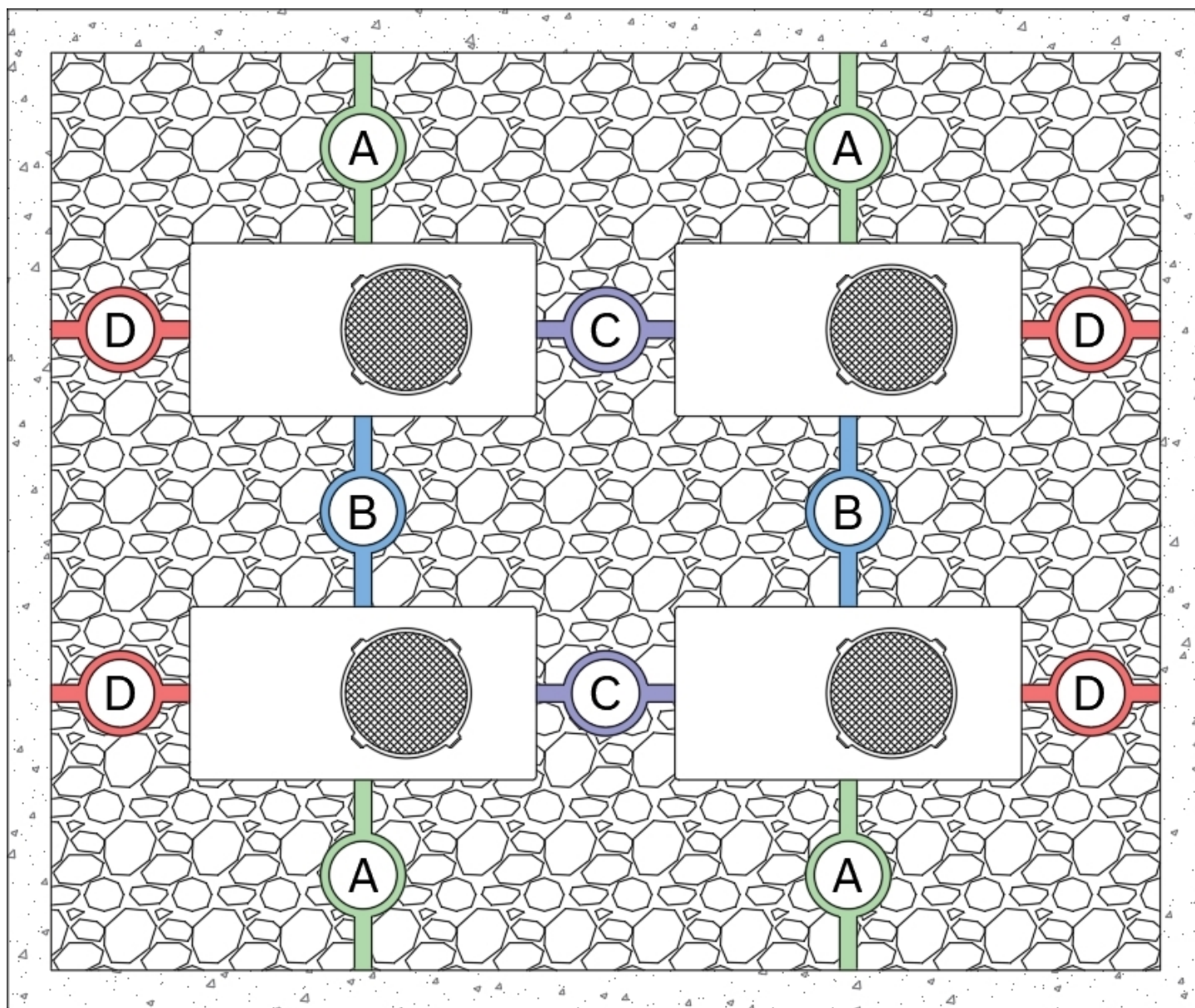
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Cascade clearances

Up to 16 units can be cascaded. This requires additional clearances beyond those for a single unit.

The table and depiction below list the required clearances for cascading units.



Key	Unit	Clearance
A	mm	2000
B	mm	1100
C	mm	800
D	mm	800

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TECHNICAL DATA SHEET COM117 (02/2023)



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Technical data

➤ Heating and Cooling information

Description	Unit	CS3000AWP 31	CS3000AWP 36	CS3000AWP 41
Heating Data				
Max output at A10/W35	kW	57.88	61.86	66.11
COP at A10/W35	-	4.61	4.39	4.31
Max output at A7/W35	kW	54.50	58.20	62.20
COP at A7/W35	-	4.20	4.10	4.03
Max output at A2/W35	kW	43.28	47.45	52.10
COP at A2/W35	-	3.45	3.40	3.25
Max output at A-7/W35	kW	33.09	35.98	39.83
COP at A-7/W35	-	2.87	2.86	2.73
Max output at A-10/W35	kW	30.65	33.22	35.92
COP at A-10/W35	-	2.75	2.69	2.59
Max output at A7/W55	kW	46.50	51.91	56.69
COP at A7/W55	-	2.70	2.70	2.70
Max output at A2/W55	kW	37.58	40.80	43.38
COP at A2/W55	-	2.11	2.08	2.05
SCOP (A7/W35)	-	4.33	4.33	4.28
SCOP (A7/W55)	-	3.24	3.19	3.16
η_{sh} at W35 (%) av. Climate ¹⁾	-	170	170	168
η_{sh} at W55 (%) av. Climate ¹⁾	-	126	125	124
Max flow temperature	°C	60°C (at A-4)		
Max flow temperature at A -20	°C	45°C		
Operating outdoor temperature limits	°C	-20°C		
Space heating efficiency class HT	-	A++	A++	A+
Energy efficiency class HP LT	-	A++	A++	A++
Cooling Data				
Max output at A35/W18	kW	63.70	69.90	79.60
EER at A35/W18	-	3.91	3.64	3.19
Max output at A35/W7	kW	42.50	48.20	55.03
EER at A35/W7	-	3.02	2.95	2.75
Outdoor temperature operating range	°C	Up to 48°C		
Minimum supply temperature	°C	0°C		

¹⁾ Seasonal space heating energy efficiency.

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TECHNICAL DATA SHEET COM117 (02/2023)



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➤ Other information

Description	Unit	CS3000AWP 31	CS3000AWP 36	CS3000AWP 41
Refrigeration circuit				
Compressor type	-	Rotary Inverter		
No. of Compressors/Circuits	-	2/1		
Refrigerant type	-	R32		
Refrigerant charge	kg	14		
CO ₂ Equivalent	t	9.45		
Min. / Max. Operating pressure	bar	1.4 / 42		
Sound output ²⁾				
Standard mode (Power/Pressure)	dB	75 / 57	75 / 57	80 / 61
Silent mode (Power/Pressure)	dB	74 / 57	74 / 57	79 / 62
Super silent mode (Power/Pressure)	dB	71 / 54.4	71 / 54.4	75 / 58
Night mode (Power/Pressure)	dB	67.4 / 50.7		
Electrical supply				
Power supply	-	400V/3~/50hz+N		
Maximum current	A	37.5	38.5	40.5
Maximum current with integrated pump	A	39.7	40.7	42.7
Startup current	A	20.25		
Startup current with integrated pump	A	19.9	20.4	21.4
Recommended Auto circuit breaker	A	50		
Performance factor cos φ with max output	-	0.94		
System Information				
Flow and Return Connections	Inch	Victaulic – 2"		
Min. Flow rate	l/s	1.8		
Max. Flow rate	l/s	5.0		
Min. Operating water pressure	bar	0.6		
Max. Operating water pressure	bar	6		
Internal PHE water content	l	5.17		
Total internal water volume	l	10.3		
Min. System volume for defrost	l	400		
Min. / Max. Water operating temperature (Cooling/Heating)	°C	0°C/60°C		
Product information				
Width	mm	1060		
Depth	mm	2274		
Height	mm	1480		
Operational weight standard unit	kg	530		
Operational weight with integrated buffer	kg	752		
IP Rating	-	IP45		

²⁾ Sound levels are measured with the unit under full load and under nominal test conditions. The sound pressure level is measured at 1 meter from the outer surface of the unit operating in open field. Actual sound levels may vary depending on the environment in which the unit is used.

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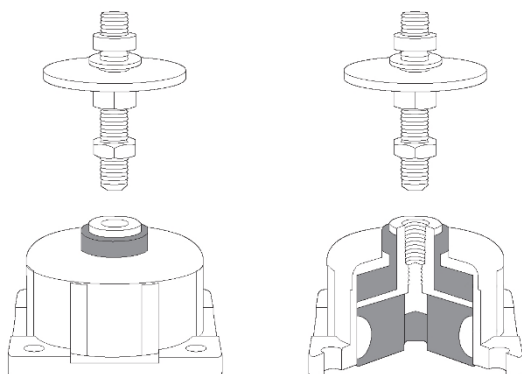


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Accessories

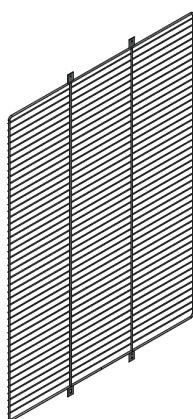
Anti-Vibration mounts



Dirt trap/Strainer



Protection Grill



Drain pan heater



Product	Part number
Anti-vibration mounts - Chassis 2	8-738-214-120
Anti-vibration mounts - Chassis 2 with Buffer	8-738-214-123
Protection Grille - Chassis 2	8-738-214-134
Dirt trap/Strainer - Chassis 2	8-738-214-117
Condensate drain pan heater - Chassis 2	8-738-214-140

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