

# ecoGEO<sup>+</sup> B/C 4-16 PRO

Water-to-water heat pump with fully inverter operation and natural refrigerant R290

SPECIFICATIONS ecoGEO <sup>+</sup> B/C 4-16 PRO		Units	B/C 1	B/C 2	B/C 3	B/C 4
APPLICATIONS	Place of installation	-	Indoors			
	Type of brine system <sup>1</sup>	-	Ground source / Air source / Hybrid			
	DHW, Heating and Pool	-		•	•	•
	High Temperature Recovery (HTR) system option	-	•	•	•	•
	Integrated Active cooling	-			•	•
	Integrated Passive cooling	-		•		•
PERFORMANCE	Modulation range of the compressor	%	15 - 100			
	Heating power output <sup>2</sup> , B0W35	kW	3,1 – 16,1			
	COP <sup>2</sup> , B0W35	- / kW	4,6 / 5,4			
	Active cooling power output <sup>2</sup> , B35W7	kW	NA		2,2 – 13,8	
	EER <sup>2</sup> , B35W7	- / kW	NA		3,7 / 6,5	
	Max. DHW temperature without / with support <sup>5</sup>	°C	70 / 80			
	Noise power emission level <sup>6</sup>	dBA	35 – 46			
	Energy label / $\eta_s$ / SCOP W35 average climate control	-	A+++ / 190%			
	Energy label / $\eta_s$ / SCOP W55 average climate control	-	A++ / -			
OPERATIONS LIMIT	Distribution / Set heating outlet temperature range	°C	10 to 70 / 20 to 70			
	Distribution / Set cooling outlet temperature range	°C	-20 to 35 / -15 to 35	5 to 35 / 7 to 25		
	Brine inlet temperature range in heating applications	°C	-25 to 35			
	Brine inlet temperature range in cooling applications	°C	10 to 70			
	Minimum / Maximum refrigerant circuit pressure	bar	1 / 32			
	Production / Pre-load circuit pressure	bar	0,5 to 3 / 1,5			
	Brine / Pre-load circuit pressure	bar	0,5 to 3 / 0,7			
	Volume / Max. DHW storage tank pressure (ecoGEO <sup>+</sup> C)	bar	8			
WORKING FLUIDS	Type / GWP	-	R290 / 3			
	Refrigerant load (R-290)	kg	0,86			
	Type / Load compressor oil	kg	HXL4467 / 1,18			
ELECTRICAL DATA: CONTROL	1/N/PE 230 V / 50-60 Hz <sup>8</sup>	-				
	Maximum recommended external protection <sup>9</sup>	A	C16A			
	Transformer primary circuit fuse	A	0,5			
	Transformer secondary circuit fuse	A	2,5			
ELECTRICAL DATA: SINGLE-PHASE	1/N/PE 230 V / 50-60 Hz <sup>8</sup>	-				
	Maximum recommended external protection <sup>9</sup>	A	C32A			
	Maximum consumption <sup>2</sup> , B0W35	kW/A	4,4 / 19,2			
	Maximum consumption <sup>2</sup> , B0W55	kW/A	5,5 / 23,9			
	Minimum / Maximum current <sup>7</sup>	A	2,6 / 12,5			
	Correction of cosine $\phi$	-	0,96-1			
ELECTRICAL DATA: THREE-PHASE	Power supply option 3/PE 400 V / 50-60 Hz <sup>8</sup>	-				
	Maximum recommended external protection <sup>9</sup>	A	C13A			
	Maximum consumption <sup>2</sup> , B0W35	kW/A	4,4 / 6,4			
	Maximum consumption <sup>2</sup> , B0W55	kW/A	5,5 / 7,9			
	Minimum / Maximum current <sup>7</sup>	A	0,9 / 4,2			
	Correction of cosine $\phi$	-	0,96-1			
ELECTRICAL DATA: THREE-PHASE	Power supply option 1/N/PE 230Vac / 50-60 Hz <sup>8</sup>	-				
	Number of elements	-	1 / 2 / 3			
	Maximum recommended external protection <sup>9</sup> - 1 / 2 / 3	A	C16A / C20A / C32A			
	Maximum consumption - 1 / 2 / 3	kW	2 / 4 / 6			
	Maximum consumption - 1 / 2 / 3	A	8,8 / 17,6 / 26,4			
	Power supply option 3/N/PE 400Vac / 50-60 Hz <sup>8</sup>	-				
	Maximum recommended external protection	A	C16A			
	Maximum consumption	kW	6			
	Maximum consumption	A	8,8			
	DIMENSIONS/WEIGHT	Height x width x depth	mm	ecoGEO <sup>+</sup> B: 1051 x 609 x 716 ecoGEO <sup>+</sup> C: 1943 x 609 x 724		
Empty weight (without assembly)		kg	B: 195	B: 205	B: 195	B: 205
			C: 260	C: 270	C: 260	C: 270

# Performance curves in Heating Production

