

CO₂ Solutions



Inverter transcritical units for CO₂ refrigerant

- › Transcritical CO₂ Commercial Condensing Units for food retailers
- › Wide range of capacities: 2 to 20HP MT and LT
- › Designed for quiet and energy-saving operation
- › Inverter technology reduces energy consumption by up to 30%
- › EC fans work efficiently and quietly
- › Easy and flexible installation
- › Designed as plug & play solutions
- › Increased liquid container to allow longer connection sections
- › High efficiency oil separator from the 4 HP unit
- › Two-stage scroll compressors with intercooler
- › Integrated electrical panel with controller
- › K65 copper pipes
- › 20HP model under development



Available from stock!



F-Gas Free



Protective Case



Plug&Play



Switchboard



Proportional Modulation



Electronic Control

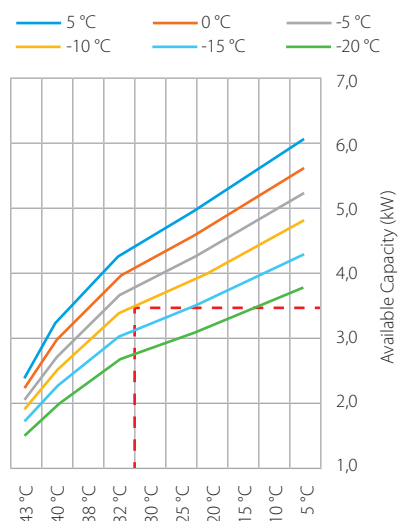
20 HP MT and LT models coming soon

Medium Temperature				GCU 2020 PXB1	GCU 2040 PXB1	GCU 4070PXB1
Capacity *	HP			2	4	10
	kW			1,80	3,25	6,25
	Max.			3,39	6,50	12,54
Power & Energy EcoDesign (2009/125/EC)	Ph./Hz./VAC			3PH / 50Hz / 400VAC		
	FLC			8,64	16,04	18,25
	COP/SEPR			1,87 / 3,57 SEPR	3,24 SEPR	2,92 SEPR
Compressor	kWh/a			5.840	12.307	26.393
	Compression Type			2 Stage (Intercooler) Panasonic Hermetic Rotary		
	Cap Ctrl.			ABB Frequency Inverter		
	RPM			2.200 ~ 4.200	2.200 ~ 4.800	1.800 ~ 3.600
	Qty.			1		
	Oil			DAPHNE PZ68S		
Gas cooler fans	l			0,7	1,15	1,80
	Type			Ebmpapst EC		
	Qty.			1		2
Sound pressure (10 m)	m³/s			1,05		2,10
	mm				450	
	dB(A)			40,0	45,0	48,0
Refrigerant	Type/GWP			R-744/1		
Receiver volume	l			12,50		20,00
Standard pipe run	m			25	35	40
Liquid connections	Inch/Type			3/8"/K65		
Suction connections	Inch/Type			3/8"/K65		1/2"/K65
Oil separator	Standard			no		yes/Turbooil
Oil level control	Standard			N/A		Cappillary
Dimensions	Unit	L x D x H	mm	1.452 x 574 x 799		1.684 x 773 x 1438
Surface area	m²			0,83		1,29
Weight	kg			151	155	285
Colour	RAL			Light Grey RAL 7035 (Powder Coated & Baked)		
Controller	Type			CAREL pRack pR300 Electronic Controller		
High side PRV	Bar			N/A	120	
Intermediate PRV	Bar			90		80
Compressor HP Switch	Standard			Yes x 1		
PED 2014/68/EU	Category			Cat. III		

* Nominal Tevap. -10°C | Tamb +32°C | 10K Superheat

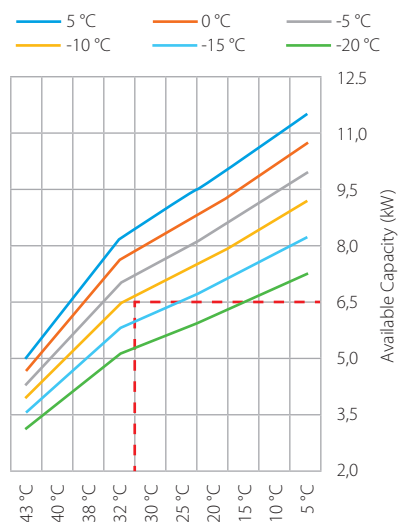
GCU 2020 PXB – 2HP

Maximum Capacity (kW)						
Tamb °C	5	0	-5	-10	-15	-20
5	6,09	5,63	5,24	4,81	4,31	3,80
10	5,74	5,31	4,94	4,54	4,06	3,58
15	5,42	5,01	4,66	4,28	3,83	3,38
20	5,11	4,73	4,40	4,04	3,61	3,19
25	4,82	4,46	4,15	3,81	3,41	3,01
30	4,55	4,21	3,91	3,59	3,22	2,84
32	4,29	3,97	3,69	3,39	3,03	2,68
38	3,74	3,46	3,18	2,92	2,64	2,31
40	3,26	3,01	2,74	2,52	2,30	1,99
43	2,43	2,25	2,09	1,92	1,72	1,52



GCU 2040 PXB1 – 4HP

Maximum Capacity (kW)						
Tamb °C	5	0	-5	-10	-15	-20
5	11,59	10,80	10,01	9,22	8,25	7,28
10	10,94	10,19	9,44	8,70	7,78	6,87
15	10,32	9,61	8,91	8,21	7,34	6,48
20	9,77	9,10	8,40	7,74	6,93	6,11
25	9,25	8,62	7,93	7,30	6,53	5,77
30	8,72	8,13	7,48	6,89	6,16	5,44
32	8,23	7,67	7,06	6,50	5,82	5,13
38	7,17	6,68	6,08	5,60	5,01	4,43
40	6,12	5,70	5,24	4,83	4,32	3,81
43	5,07	4,72	4,34	4,00	3,58	3,16



GCU 4070 PXB1– 10HP

Maximum Capacity (kW)						
Tamb °C	5	0	-5	-10	-15	-20
5	21,55	20,04	18,53	17,02	14,63	12,23
10	20,60	19,16	17,72	16,27	13,99	11,84
15	19,66	18,28	16,90	15,53	13,34	11,45
20	18,71	17,40	16,09	14,78	12,70	11,07
25	17,77	16,52	15,28	14,03	12,06	10,68
30	16,82	15,64	14,46	13,29	11,42	10,29
32	15,88	14,77	13,65	12,54	10,78	9,90
38	13,67	12,71	11,75	10,80	9,28	8,53
40	11,46	10,66	9,86	9,05	7,78	7,15
43	9,26	8,61	7,96	7,31	6,28	5,77

