

Model: GX18TB

Data

Type: Hermetic piston compressors

Producer: ACC

Series: HMBP

Model: GX18TB

General data

Refrigerant:	R134a
Discharge element:	C-V
Cooling:	F
Maximum ambient temperature [$^{\circ}\text{C}$]:	43

Compressor's data

Cylinder capacity [cm^3]:	18,4
Displacement [m^3/h]:	3,1
Weight [kg]:	16
Oil charge [cm^3]:	500
Oil type:	ISO VG 46 ESTER

Engine's data

Engine type:	CSIR
Power [KM]:	1/2
Starting element:	HST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	24
Running winding resistance (25°C) [Ω]:	2,94
Starting winding resistance (25°C) [Ω]:	31

Electrical data

Relays:	9660 A 170, MTRP 57
Shielding element:	MRA38134, T0348/G.
Starting capacitor volume [μF]:	

Connections

	<u>millimeters</u>	<u>inches</u>
Service tube:	8,1	
Suction tube:	8,1	
Discharge tube:	6,5	

Model: GX18TB**Capacity**

R134a

Cooling capacity [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
40	401	553	734	944	1 182	1 449	1 744	2 068
45	363	502	669	865	1 090	1 344	1 626	1 937
50	324	450	604	787	999	1 239	1 508	1 805
55	286	398	539	709	907	1 134	1 390	1 674
60	-	-	-	631	816	1 029	1 272	1 542

Power input [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
40	350	397	445	491	538	584	630	675
45	347	400	453	506	558	611	662	714
50	343	403	462	520	579	637	695	752
55	340	405	470	535	599	663	727	790
60	-	-	-	550	620	690	759	829

Current [A]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
40	3.15	3.27	3.41	3.56	3.73	3.91	4.11	4.32
45	3.15	3.29	3.45	3.63	3.81	4.02	4.23	4.46
50	3.15	3.31	3.49	3.69	3.90	4.12	4.36	4.61
55	3.15	3.34	3.54	3.75	3.98	4.22	4.48	4.75
60	-	-	-	3.81	4.06	4.33	4.61	4.90

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Capacity

Mass flow [kg/s]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	13.04	18.92	26.64	36.20	47.61	60.86	75.95	92.88
45	11.64	17.45	25.10	34.60	45.93	59.11	74.13	90.99
50	10.24	15.98	23.56	32.99	44.26	57.37	72.32	89.11
55	8.84	14.51	22.02	31.38	42.58	55.62	70.50	87.22
60	-	-	-	29.77	40.90	53.87	68.68	85.34

C.O.P. [W/W]

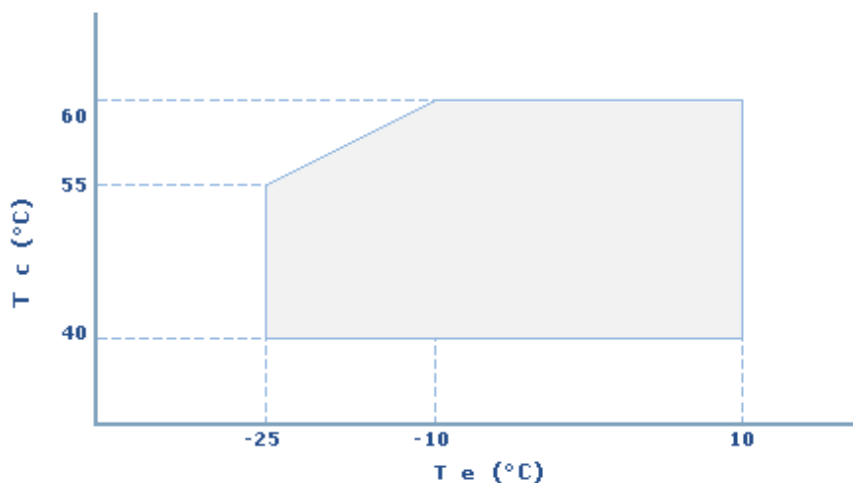
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	1.15	1.39	1.65	1.92	2.20	2.48	2.77	3.06
45	1.05	1.25	1.48	1.71	1.95	2.20	2.46	2.71
50	0.94	1.12	1.31	1.51	1.73	1.95	2.17	2.40
55	0.84	0.98	1.15	1.33	1.51	1.71	1.91	2.12
60	-	-	-	1.15	1.32	1.49	1.67	1.86

Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range



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Image



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Electrical

C S I R

