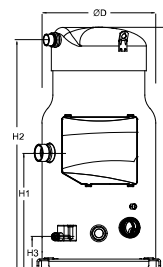


General Characteristics

Model number (on compressor nameplate)		PCH065A8VBA
Code number for Singlepack*		120H1273
Code number for Industrial pack**		120H1272
Drawing number		8556119b
Suction and discharge connections		Brazed
Suction connection		2-1/8" ODF
Discharge connection		1-3/8" ODF
Oil sight glass		Threaded
Oil equalisation connection		2-1/4" Rotolock
Oil drain connection		1/4" flare
LP gauge port		Schrader
IPR valve		None
Reverse rotation protection		Electronic module
Swept volume		276.2 cm ³ /rev
Displacement @ Nominal speed		48.1 m ³ /h @ 2900 rpm
Net weight		111 kg
Oil charge		6.7 litre, POE - 160SZ
Maximum system test pressure Low Side / High side		34.3 bar(g) / 48.7 bar(g)
Maximum differential test pressure		37 bar
Maximum number of starts per hour		12
Refrigerant charge limit		15 kg
Approved refrigerants		R410A

Dimensions

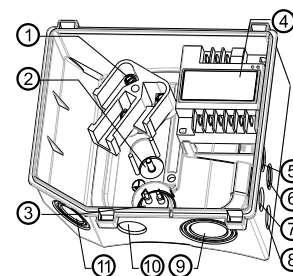


D=317.5 mm
H=682.5 mm
H1=331 mm
H2=647.5 mm
H3=97 mm

Electrical Characteristics

Nominal voltage	380V/3/50Hz
Voltage range	342-418 V @ 50Hz
Winding resistance (between phases) +/- 7% at 25°C	0.52 Ω
Rated Load Amps (RLA)	44.3 A
Maximum Must Trip current (MMT)	56 A
Locked Rotor Amps (LRA)	236 A
Motor protection	Electronic protection module, 110-240 V

Terminal box



IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermistor connector
- 4: Electronic protection module
- 5: Double knock-out Ø 22.5 mm (7/8") & Ø 16.5 mm (0.65")
- 6: Double knock-out Ø 22.5 mm (7/8") & Ø 16.5 mm (0.65")
- 7: Knock-out Ø 20.7 mm (0.81")
- 8: Knock-out Ø 20.7 mm (0.81")
- 9: Triple knock-out Ø 50.8 mm (2") & Ø 43.7 mm (1.72") & Ø 34.5 mm (1.35")
- 10: Knock-out Ø 25.5 mm (1.00")
- 11: Triple knock-out Ø 40.5 mm (1.59") & Ø 32.2 mm (1.27") & Ø 25.5 mm (1")

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	21 Nm

Parts shipped with compressor

Electronic protection module mounted in terminal box
Initial oil charge
Installation instructions

Approvals : QS, -, -

*Singlepack: Compressor in cardboard box

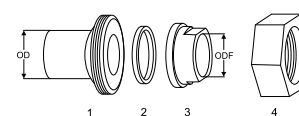
**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Rotolock accessories, suction side
Code no.

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Rotolock adapter (2"1/4 Rotolock, 1"5/8 ODF)	12020432
Gasket, 2-1/4"	8156133

Rotolock accessories, discharge side
Code no.

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Rotolock adapter (1-3/4" Rotolock, 1-1/8" ODF)	12020364
Gasket, 1-3/4"	8156132

Solder sleeve adapter set


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

Rotolock accessories, sets
Code no.

Solder sleeve adapter set, (2-1/4" Rotolock, 1-5/8" ODF), (1-3/4" Rotolock, 1"1/8 ODF)	7765028
Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

Oil / lubricants
Code no.

POE lubricant, 160SZ, 1 litre can	7754023
POE lubricant, 160SZ, 2.5 litre can	12020571

Crankcase heaters
Code no.

Surface sump heater + bottom insulation, 56 W, 24 V, CE mark, UL	12020360
Surface sump heater + bottom insulation, 56 W, 230 V, CE mark, UL	12020376
Surface sump heater + bottom insulation, 56 W, 400 V, CE mark, UL	12020377
Belt type crankcase heater, 75 W, 230 V, CE mark, UL	7773108
Belt type crankcase heater, 75 W, 400 V, CE mark, UL	7773118

Miscellaneous accessories
Code no.

Electronic soft start kit, MCI 50 CM	037N0401
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Acoustic bottom insulation for scroll compressor	12020353

Spare parts
Code no.

Electronic motor protection module, 110-240 V	12020585
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 210 x 190 incl. cover	12020458
T block connector 60 x 75 mm	8173021

Performance data at 50Hz
R410A

Cond temp to °C (tc)	Evaporating Temperature in °C (to)											
	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25

Cooling capacity in W

10	29 708	36 153	43 570	52 120	61 964	73 264	-	-	-	-	-	-
20	27 677	33 961	41 106	49 274	58 625	69 320	81 523	95 392	-	-	-	-
30	25 482	31 543	38 354	46 077	54 873	64 902	76 327	89 309	104 008	120 587	-	-
35	24 337	30 263	36 884	44 361	52 855	62 528	73 541	86 055	100 232	116 233	-	-
40	23 165	28 941	35 356	42 572	50 750	60 051	70 637	82 668	96 307	111 714	129 051	-
45	-	27 584	33 778	40 717	48 563	57 477	67 619	79 153	92 238	107 036	123 708	142 415
50	-	26 197	32 154	38 801	46 299	54 809	64 494	75 513	88 029	102 202	118 195	136 167
60	-	-	-	-	-	-	57 940	67 885	79 216	92 093	106 679	123 134

Power input in W

10	8 794	9 223	9 478	9 475	9 130	8 361	-	-	-	-	-	-
20	10 426	10 951	11 421	11 752	11 861	11 665	11 080	10 023	-	-	-	-
30	12 651	13 114	13 642	14 150	14 555	14 774	14 724	14 321	13 481	12 123	-	-
35	14 121	14 495	14 992	15 530	16 024	16 392	16 549	16 414	15 902	14 931	-	-
40	15 902	16 147	16 575	17 102	17 646	18 123	18 450	18 543	18 319	17 695	16 588	-
45	-	18 125	18 444	18 922	19 476	20 023	20 480	20 762	20 787	20 471	19 732	18 485
50	-	20 482	20 653	21 043	21 569	22 146	22 692	23 124	23 359	23 312	22 901	22 043
60	-	-	-	-	-	-	27 886	28 499	29 034	29 408	29 536	29 336

Heating capacity in W

10	38 000	44 850	52 507	61 054	70 574	81 149	-	-	-	-	-	-
20	37 509	44 288	51 876	60 356	69 810	80 320	91 971	104 844	-	-	-	-
30	37 412	43 910	51 219	59 421	68 598	78 834	90 212	102 813	116 721	132 018	-	-
35	37 652	43 931	51 021	59 005	67 966	77 985	89 147	101 534	115 228	130 312	-	-
40	38 161	44 168	50 986	58 700	67 391	77 141	88 035	100 154	113 582	128 401	144 693	-
45	-	44 676	51 170	58 561	66 929	76 359	86 932	98 731	111 839	126 340	142 315	159 847
50	-	45 511	51 630	58 644	66 638	75 693	85 893	97 320	110 056	124 186	139 791	156 954
60	-	-	-	-	-	-	84 236	94 760	106 595	119 825	134 531	150 797

Current in A

10	21.41	22.45	23.40	24.24	24.95	25.54	-	-	-	-	-	-
20	22.02	22.88	23.66	24.36	24.97	25.47	25.87	26.14	-	-	-	-
30	24.50	25.25	25.95	26.59	27.16	27.65	28.06	28.37	28.58	28.68	-	-
35	26.39	27.11	27.79	28.43	29.01	29.52	29.97	30.33	30.60	30.77	-	-
40	28.68	29.38	30.07	30.72	31.33	31.88	32.38	32.81	33.16	33.42	33.58	-
45	-	32.05	32.75	33.44	34.09	34.71	35.28	35.79	36.23	36.61	36.89	37.09
50	-	35.08	35.82	36.56	37.28	37.97	38.63	39.25	39.81	40.31	40.74	41.08
60	-	-	-	-	-	-	46.62	47.50	48.35	49.16	49.93	50.64

Coefficient of performance (C.O.P)

10	3.38	3.92	4.60	5.50	6.79	8.76	-	-	-	-	-	-
20	2.65	3.10	3.60	4.19	4.94	5.94	7.36	9.52	-	-	-	-
30	2.01	2.41	2.81	3.26	3.77	4.39	5.18	6.24	7.71	9.95	-	-
35	1.72	2.09	2.46	2.86	3.30	3.81	4.44	5.24	6.30	7.78	-	-
40	1.46	1.79	2.13	2.49	2.88	3.31	3.83	4.46	5.26	6.31	7.78	-
45	-	1.52	1.83	2.15	2.49	2.87	3.30	3.81	4.44	5.23	6.27	7.70
50	-	1.28	1.56	1.84	2.15	2.47	2.84	3.27	3.77	4.38	5.16	6.18
60	-	-	-	-	-	-	2.08	2.38	2.73	3.13	3.61	4.20

Heating Coefficient of performance (H C.O.P)

10	4.32	4.86	5.54	6.44	7.73	9.71	-	-	-	-	-	-
20	3.60	4.04	4.54	5.14	5.89	6.89	8.30	10.46	-	-	-	-
30	2.96	3.35	3.75	4.20	4.71	5.34	6.13	7.18	8.66	10.89	-	-
35	2.67	3.03	3.40	3.80	4.24	4.76	5.39	6.19	7.25	8.73	-	-
40	2.40	2.74	3.08	3.43	3.82	4.26	4.77	5.40	6.20	7.26	8.72	-
45	-	2.46	2.77	3.09	3.44	3.81	4.24	4.76	5.38	6.17	7.21	8.65
50	-	2.22	2.50	2.79	3.09	3.42	3.79	4.21	4.71	5.33	6.10	7.12
60	-	-	-	-	-	-	3.02	3.33	3.67	4.07	4.55	5.14

Nominal performance at to = -15°C, tc=44°C

Cooling capacity	41 093	W
Power input	18 536	W
Heating capacity	58 573	W
Current consumption	32.86	kg/h
C.O.P	2.21	
H C.O.P	3.16	

Pressure switch settings

Maximum HP switch setting	46.1	bar(g)
Maximum LP switch setting	1.5	bar(g)
LP pump down setting	1.7	bar(g)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions Suction Superheat = 5 K, Injection Superheat = 5 K,

ΔT Intermediate Exchanger = 5 K, Subcooling = 5 K

Tolerance according EN12900