Technical Data Sheet

Compressor model **HFY55MA**

Voltage **220-240V 50Hz ~1**

Refrigerant **R600a**

Compressor status

APPLICATION

Application	High Back Pressure
Refrigerant	R600a
Evaporating Temp.	-15,0 ºC to 10,0 ºC
Expansion	Capillar
Comp. Cooling	Static
Max. ambient temp.	43,0 ºC

COMPRESSOR

Displacement	5,50 cm³
Diameter	21,99 mm
Stroke	14,50 mm
Net Weight	8,95 Kg
Oil type	ISO VG 10 MINER
Oil charge	200 cm³
HP	1/10 hp

MOTOR

Voltage/Frequency	220-240V 50Hz
Voltage range	187-255 V
Type	RSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	4,60 A
Max. Cont. Current (MCC)	0,90 A
Main W. resist. at 25ºC	26,16 Ω
Start W. resist. at 25ºC	15,10 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	297 kCal/h	291 W
COP	2,83 W/W	2,44 W/W
EER	2,43 kCal/Wh	2,11 kCal/Wh
Input Power	122 W	119 W
Current	0,85 A	0,84 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	HBP (D)	**HBP (C)**
Evaporating temp. (T_e)	7,2 ºC	5,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	46,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	35,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	35,0 ºC	32,0 ºC
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Relay	Option 1			
Reference				
Voltage	V			
Resistance	Ω			
Protector	Option 1			
Reference	MRP304AMN			
Current	7,70 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	120,00 / 69,00 ºC			

This product is approved for R290 and R600a regarding explosion safety according to standard EN 60335-1 and EN 60335-2-34

Technical Data Sheet

cubigel compressors

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	141	78	0,74	2,10	1,81
40	-10	177	84	0,76	2,46	2,11
40	-5	220	90	0,77	2,86	2,46
40	0	269	95	0,78	3,30	2,83
40	5	324	100	0,79	3,77	3,24
40	7,2	350	102	0,80	3,99	3,43
40	10	385	105	0,80	4,28	3,68
45	-15	133	81	0,75	1,91	1,64
45	-10	167	88	0,76	2,22	1,91
45	-5	208	94	0,78	2,57	2,21
45	0	254	100	0,79	2,95	2,54
45	5	307	106	0,81	3,36	2,89
45	7,2	332	109	0,81	3,56	3,06
45	10	366	112	0,82	3,81	3,28
50	-15	124	83	0,75	1,74	1,49
50	-10	157	91	0,77	2,00	1,72
50	-5	195	99	0,79	2,30	1,98
50	0	240	106	0,81	2,64	2,27
50	5	290	112	0,82	3,00	2,58
50	7,2	315	115	0,83	3,17	2,73
50	10	347	119	0,84	3,40	2,92
55	-15	116	86	0,76	1,57	1,35
55	-10	146	95	0,78	1,80	1,54
55	-5	183	103	0,80	2,06	1,77
55	0	225	111	0,82	2,36	2,03
55	5	274	119	0,84	2,68	2,31
55	7,2	297	122	0,85	2,83	2,43
55	10	328	126	0,86	3,03	2,60
60	-15	108	89	0,77	1,41	1,21
60	-10	136	98	0,79	1,61	1,38
60	-5	170	107	0,81	1,84	1,58
60	0	210	116	0,83	2,10	1,81
60	5	257	125	0,86	2,39	2,06
60	7,2	279	129	0,87	2,52	2,17
60	10	310	133	0,88	2,70	2,32

CECOMAF

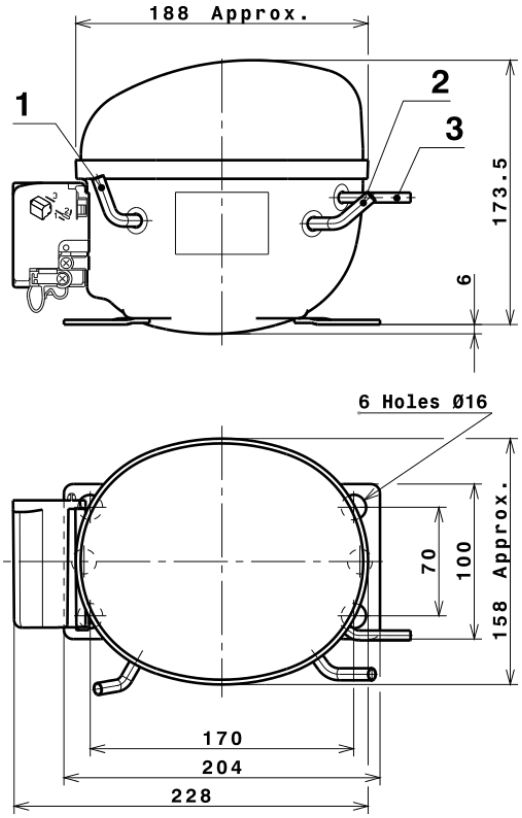
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	152	78	0,74	1,94	1,68
40	-10	192	84	0,76	2,27	1,96
40	-5	238	90	0,77	2,64	2,28
40	0	291	95	0,78	3,05	2,63
40	5	350	100	0,79	3,48	3,01
40	7,2	378	103	0,80	3,68	3,18
40	10	415	105	0,81	3,95	3,41
45	-15	143	81	0,75	1,76	1,52
45	-10	180	88	0,76	2,04	1,77
45	-5	223	95	0,78	2,36	2,04
45	0	273	101	0,79	2,71	2,34
45	5	330	107	0,81	3,09	2,67
45	7,2	357	109	0,82	3,27	2,82
45	10	393	112	0,82	3,50	3,02
50	-15	133	84	0,76	1,59	1,37
50	-10	168	92	0,77	1,83	1,58
50	-5	209	99	0,79	2,11	1,82
50	0	256	106	0,81	2,41	2,09
50	5	311	113	0,83	2,75	2,37
50	7,2	336	116	0,83	2,90	2,51
50	10	371	120	0,84	3,10	2,68
55	-15	123	86	0,76	1,43	1,23
55	-10	156	95	0,78	1,63	1,41
55	-5	194	104	0,80	1,88	1,62
55	0	239	112	0,82	2,14	1,85
55	5	291	119	0,84	2,44	2,11
55	7,2	316	123	0,85	2,57	2,22
55	10	349	127	0,86	2,75	2,38
60	-15	114	89	0,77	1,28	1,10
60	-10	143	99	0,79	1,45	1,25
60	-5	180	108	0,81	1,66	1,44
60	0	222	117	0,84	1,90	1,64
60	5	271	126	0,86	2,16	1,87
60	7,2	295	129	0,87	2,28	1,97
60	10	327	134	0,89	2,44	2,11

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	424,9403367423	53,4151162906	0,6694425025	3,9715893721513
2	15,1095160290	-0,4097684293	-0,0019332788	0,14858123698889
3	-3,5143949164	1,1062543614	0,0028948476	-0,012083361207225
4	0,1274235970	-0,0059172538	0,0000098916	0,0019631222359615
5	-0,1038615588	0,0372136567	0,0001147599	-0,00020140503429648

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$

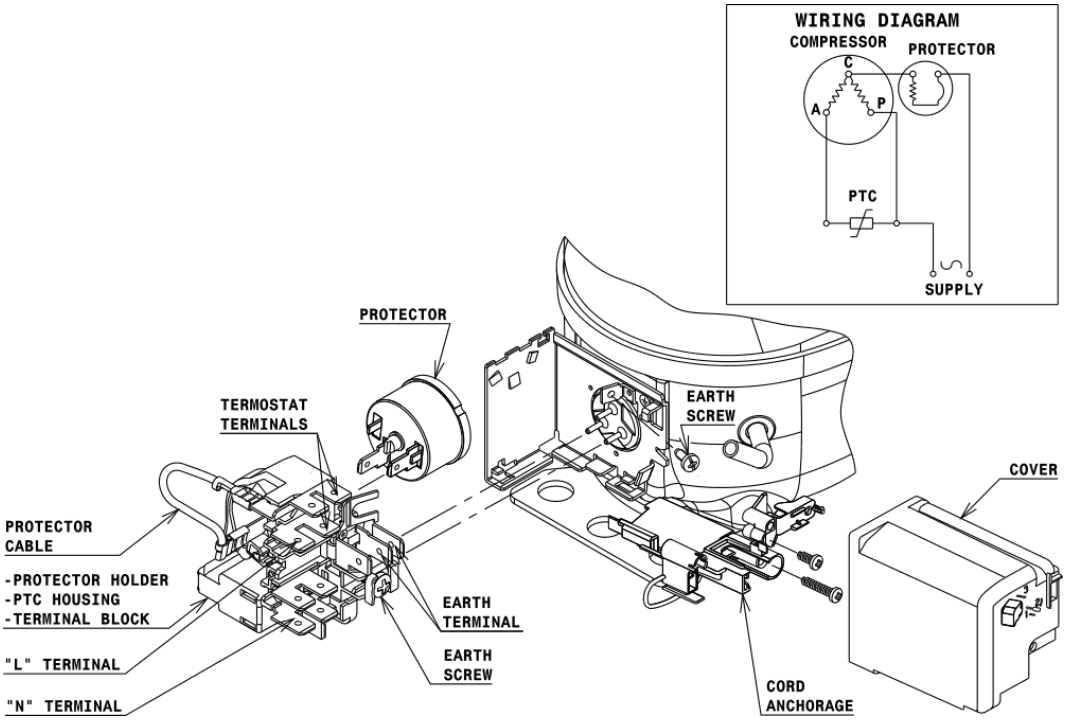
COMPRESSOR DIMENSIONS



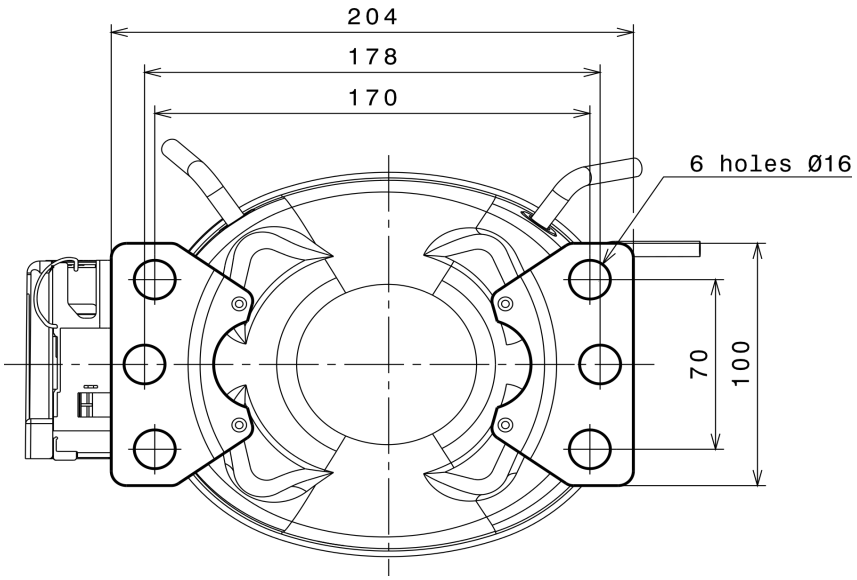
	DESIGNATION	INTERNAL DIAM.
1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (PTC) (U range)



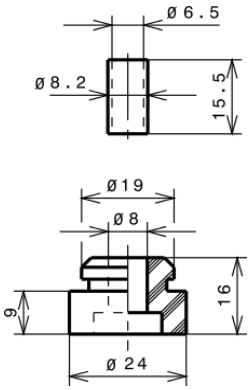
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

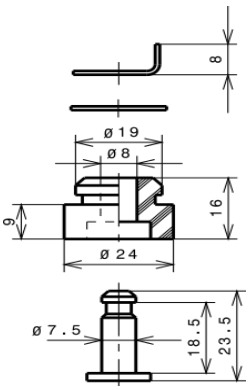
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



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