

Technical Data Sheet

Compressor model **MS26FG_V**
Voltage **200-220/230V 50/60Hz ~1**
Refrigerant **R404A**

APPLICATION

Application Low Back Pressure
Refrigerant R404A
Evaporating Temp. -40,0 °C to -10,0 °C
Expansion Capillar/Valve
Comp. Cooling Fan cooled
Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 25,93 cm³
Diameter 39,98 mm
Stroke 19,07 mm
Net Weight 22,11 Kg
Oil type ISO VG 46 ESTER
Oil charge 887 cm³

MOTOR

Nominal Power 3/4 hp
Voltage/Frequency 230V 60Hz
Voltage range 207-253 V
Type CSR
Phase number 1 PH
Locked Rotor Amps (LRA) 35,80 A
Max. Cont. Current (MCC) 6,90 A
Main W. resist. at 25°C 2,45 Ω
Start W. resist. at 25°C 5,77 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	1.168 kCal/h	907 W
COP	1,31 W/W	0,92 W/W
EER	1,12 kCal/Wh	0,79 kCal/Wh
Input Power	1.040 W	987 W
Current	4,60 A	4,37 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	88-108 µF 330 V			
Run capacitor	20 µF 450 V			
Relay	Option 1	Option 2		
Reference	3ARR3 10S3	RVA 3AG..		
Pick-Up	180-195 V	180-195 V		
Drop-Out	40-105 V	40-105 V		
Protector	Option 1			
Reference	T0535			
Current	17,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	444	578	2,70	0,89	0,77
40	-35	716	706	3,21	1,18	1,01
40	-30	1.028	837	3,74	1,43	1,23
40	-25	1.378	968	4,29	1,66	1,42
40	-23,3	1.506	1.013	4,48	1,73	1,49
40	-20	1.767	1.101	4,87	1,87	1,61
40	-15	2.195	1.235	5,46	2,07	1,78
40	-10	2.663	1.370	6,08	2,26	1,94

45	-40	374	560	2,63	0,78	0,67
45	-35	634	697	3,17	1,06	0,91
45	-30	932	835	3,73	1,30	1,12
45	-25	1.270	974	4,32	1,52	1,30
45	-23,3	1.393	1.022	4,52	1,59	1,36
45	-20	1.646	1.115	4,93	1,72	1,48
45	-15	2.062	1.257	5,56	1,91	1,64
45	-10	2.516	1.400	6,22	2,09	1,80

50	-40	304	543	2,57	0,65	0,56
50	-35	551	687	3,13	0,93	0,80
50	-30	837	833	3,73	1,17	1,00
50	-25	1.161	981	4,35	1,38	1,18
50	-23,3	1.281	1.031	4,56	1,44	1,24
50	-20	1.525	1.129	4,99	1,57	1,35
50	-15	1.928	1.279	5,66	1,75	1,51
50	-10	2.370	1.430	6,36	1,93	1,66

55	-40	234	525	2,50	0,52	0,45
55	-35	468	678	3,10	0,80	0,69
55	-30	741	832	3,72	1,04	0,89
55	-25	1.053	987	4,37	1,24	1,07
55	-23,3	1.168	1.040	4,60	1,31	1,12
55	-20	1.404	1.143	5,05	1,43	1,23
55	-15	1.794	1.301	5,76	1,60	1,38
55	-10	2.223	1.460	6,50	1,77	1,52

60	-40	164	508	2,43	0,38	0,32
60	-35	385	668	3,06	0,67	0,58
60	-30	646	830	3,71	0,90	0,78
60	-25	945	993	4,40	1,11	0,95
60	-23,3	1.055	1.049	4,64	1,17	1,01
60	-20	1.283	1.158	5,11	1,29	1,11
60	-15	1.660	1.323	5,86	1,46	1,25
60	-10	2.077	1.490	6,64	1,62	1,39

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	461	578	2,70	0,80	0,69
40	-35	772	706	3,21	1,09	0,94
40	-30	1.115	837	3,74	1,33	1,15
40	-25	1.490	968	4,29	1,54	1,33
40	-23,3	1.625	1.013	4,48	1,60	1,39
40	-20	1.898	1.101	4,87	1,72	1,49
40	-15	2.338	1.235	5,46	1,89	1,64
40	-10	2.810	1.370	6,08	2,05	1,77

45	-40	375	560	2,63	0,67	0,58
45	-35	649	697	3,17	0,93	0,81
45	-30	956	835	3,73	1,15	0,99
45	-25	1.296	974	4,32	1,33	1,15
45	-23,3	1.419	1.022	4,52	1,39	1,20
45	-20	1.668	1.115	4,93	1,50	1,29
45	-15	2.071	1.257	5,56	1,65	1,42
45	-10	2.508	1.400	6,22	1,79	1,55

50	-40	288	543	2,57	0,53	0,46
50	-35	527	687	3,13	0,77	0,66
50	-30	798	833	3,73	0,96	0,83
50	-25	1.102	981	4,35	1,12	0,97
50	-23,3	1.212	1.031	4,56	1,18	1,02
50	-20	1.437	1.129	4,99	1,27	1,10
50	-15	1.805	1.279	5,66	1,41	1,22
50	-10	2.205	1.430	6,36	1,54	1,33

55	-40	202	525	2,50	0,39	0,33
55	-35	405	678	3,10	0,60	0,52
55	-30	640	832	3,72	0,77	0,66
55	-25	907	987	4,37	0,92	0,79
55	-23,3	1.005	1.040	4,60	0,97	0,84
55	-20	1.207	1.143	5,05	1,06	0,91
55	-15	1.538	1.301	5,76	1,18	1,02
55	-10	1.902	1.460	6,50	1,30	1,13

60	-40	116	508	2,43	0,23	0,20
60	-35	283	668	3,06	0,42	0,37
60	-30	482	830	3,71	0,58	0,50
60	-25	713	993	4,40	0,72	0,62
60	-23,3	799	1.049	4,64	0,76	0,66
60	-20	976	1.158	5,11	0,84	0,73
60	-15	1.272	1.323	5,86	0,96	0,83
60	-10	1.600	1.490	6,64	1,07	0,93

EN12900

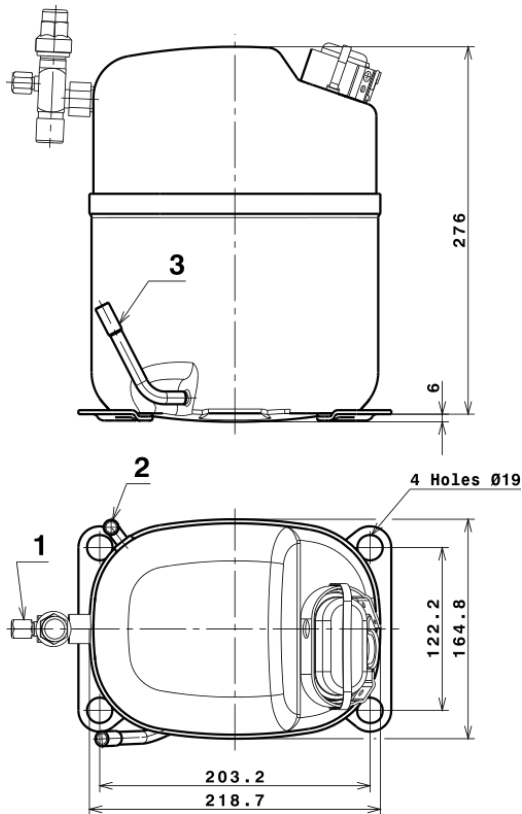
X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	6.760,1731709467	1.316,0294558451	5,9297716431	149,00954937851
2	165,4817475321	15,9039688710	0,0911110108	4,0341929247342
3	-75,8664482491	9,4072552890	0,0434771913	-1,0140763666048
4	0,6108157167	0,0334471812	0,0006367482	0,025188460313052
5	-1,4757209766	0,3246187226	0,0014321667	-0,015598819795429

Equation

$$x_1 + x_2 Te + x_3 Tc + x_4 Te^2 + x_5 Te Tc$$

Technical Data Sheet

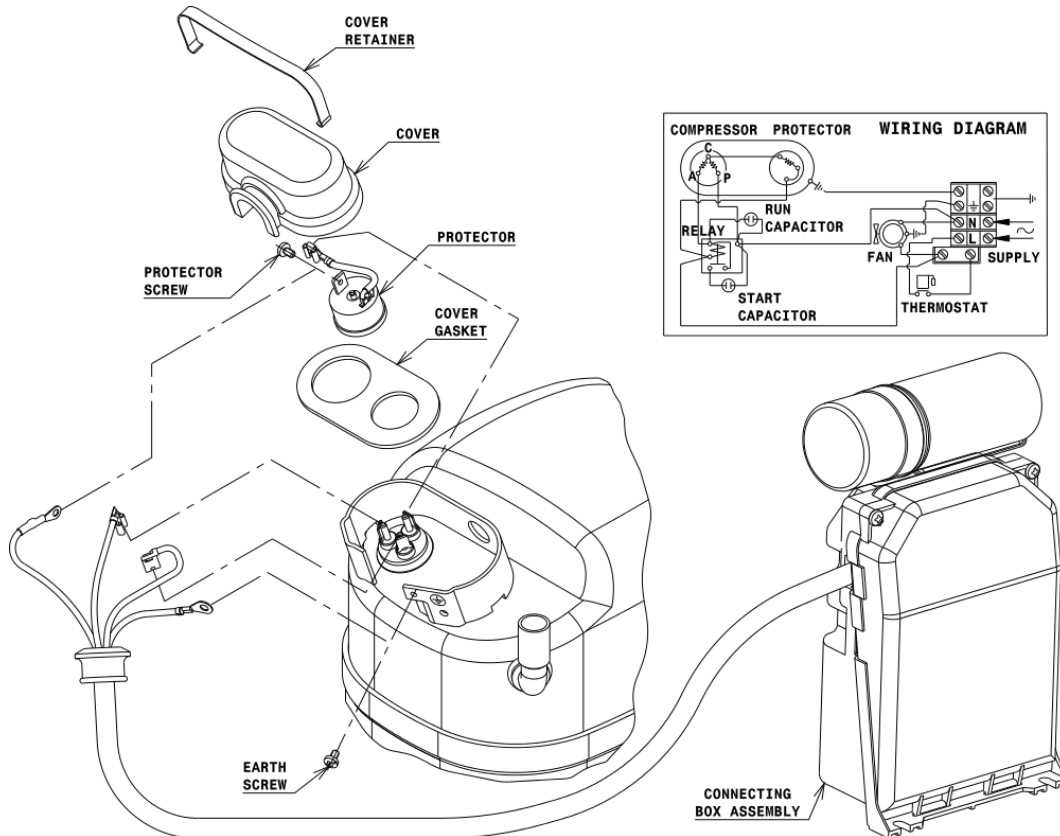
COMPRESSOR DIMENSIONS



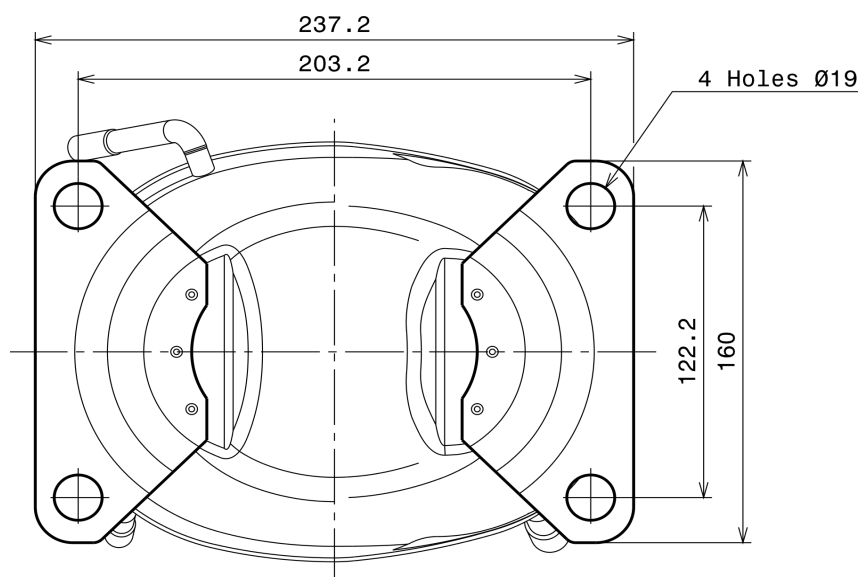
DESIGNATION	INTERNAL DIAM.
1 Service Valve	1/2" SAE
2 Service	9,7 mm
3 Discharge	8,0 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



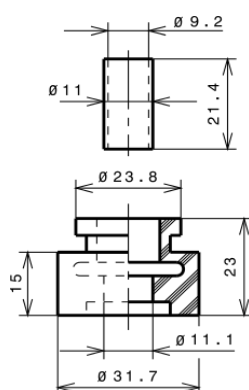
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (203.2x122.2 net)



SOA

SOA R404A LBP

