

Compressor: D3-15.1Y

Refrigerant: R404A

Electrical supply: STANDARD

Performance data

Suction gas temperature	= 20,0°C
Evaporator superheating	= 10,0K
Subcooling	= 0,0K
Operating mode	= normal

Evaporating temperature	°C	5,0	0	-5,0	-10,0	-15,0	-20,0	-25,0
Condensing temperature = 20,0°C								
Refrigerating capacity	kW	-	16,58	13,82	11,41	9,33	7,55	6,05
Power input	kW	-	2,647	2,784	2,814	2,755	2,625	2,443
COP		-	6,26	4,96	4,06	3,39	2,88	2,48
Condensing temperature = 25,0°C								
Refrigerating capacity	kW	18,44	15,51	12,92	10,67	8,72	7,05	5,64
Power input	kW	2,937	3,103	3,153	3,106	2,981	2,795	2,568
COP		6,28	5,00	4,10	3,43	2,92	2,52	2,20
Condensing temperature = 30,0°C								
Refrigerating capacity	kW	17,15	14,42	12,01	9,91	8,10	6,54	5,23
Power input	kW	3,445	3,518	3,486	3,368	3,181	2,945	2,677
COP		4,98	4,10	3,44	2,94	2,54	2,22	1,95
Condensing temperature = 35,0°C								
Refrigerating capacity	kW	15,85	13,31	11,08	9,14	7,47	6,03	4,81
Power input	kW	3,910	3,896	3,788	3,603	3,360	3,078	2,775
COP		4,05	3,42	2,93	2,54	2,22	1,96	1,73
Condensing temperature = 40,0°C								
Refrigerating capacity	kW	14,53	12,19	10,15	8,37	6,83	5,52	4,40
Power input	kW	4,338	4,242	4,061	3,814	3,521	3,198	2,864
COP		3,35	2,87	2,50	2,19	1,94	1,73	1,54
Condensing temperature = 45,0°C								
Refrigerating capacity	kW	13,19	11,06	9,20	7,59	6,20	5,00	3,99
Power input	kW	4,732	4,558	4,310	4,007	3,667	3,308	2,950
COP		2,79	2,43	2,13	1,89	1,69	1,51	1,35
Condensing temperature = 50,0°C								
Refrigerating capacity	kW	11,83	9,91	8,24	6,79	5,55	4,49	3,58
Power input	kW	5,095	4,849	4,539	4,184	3,803	3,414	3,035
COP		2,32	2,04	1,82	1,62	1,46	1,31	1,18
Condensing temperature = 55,0°C								
Refrigerating capacity	kW	10,46	8,75	7,27	6,00	4,90	3,97	-
Power input	kW	5,432	5,118	4,751	4,350	3,932	3,517	-
COP		1,93	1,71	1,53	1,38	1,25	1,13	-

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Subcooling	= 0,0K
Operating mode	= normal

Evaporating temperature °C -30,0

Condensing temperature = 20,0°C

Refrigerating capacity	kW	4,80
Power input	kW	2,227
COP		2,16

Condensing temperature = 25,0°C

Refrigerating capacity	kW	4,46
Power input	kW	2,317
COP		1,93

Condensing temperature = 30,0°C

Refrigerating capacity	kW	4,12
Power input	kW	2,396
COP		1,72

Condensing temperature = 35,0°C

Refrigerating capacity	kW	3,79
Power input	kW	2,469
COP		1,53

Condensing temperature = 40,0°C

Refrigerating capacity	kW	3,45
Power input	kW	2,539
COP		1,36

Condensing temperature = 45,0°C

Refrigerating capacity	kW	3,12
Power input	kW	2,609
COP		1,20

Condensing temperature = 50,0°C

Refrigerating capacity	kW	2,80
Power input	kW	2,684
COP		1,04

Condensing temperature = 55,0°C

Refrigerating capacity	kW	-
Power input	kW	-
COP		-

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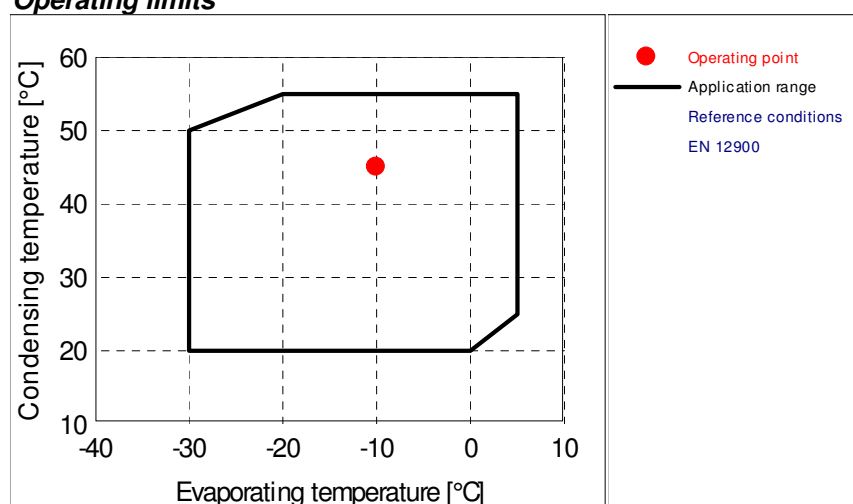
Refrigerant: R404A

Electrical supply: STANDARD

Performance data

Suction gas temperature	= 20,0°C
Evaporator superheating	= 10,0K
Subcooling	= 0,0K
Operating mode	= normal

Operating limits



Compressor: D3-15.1Y

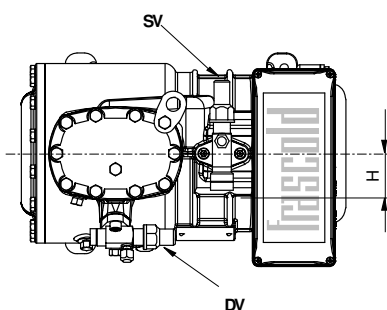
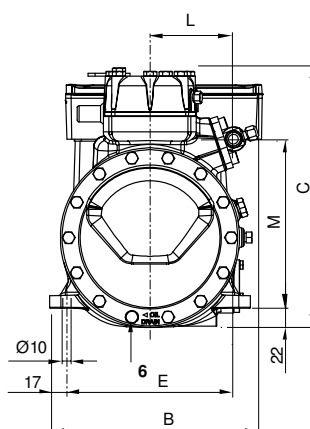
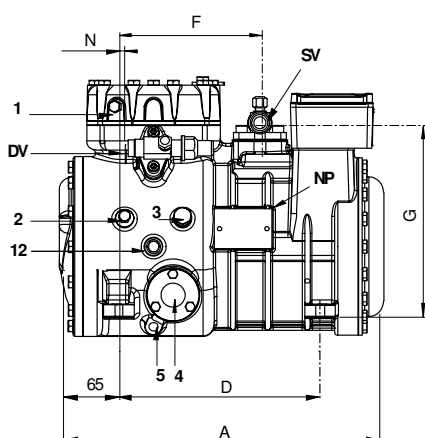
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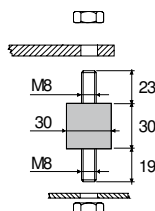
Dimensions



Supporto antivibrante

Vibration absorber

Vibrationsabsorber



Legend:

D Suction Valve	Ř28,6 mm
Discharge valve	Ř15,8 mm
A: Length	374mm
B: Width	242mm
C: Height	317mm
D: Base mounting	234mm
E: Base mounting	194mm
F: Suction Valve	165mm
G: Suction Valve	225mm
H: Suction Valve	53mm
L: Discharge valve	94mm
M: Discharge valve	192mm
N: Discharge valve	13mm
1: High pressure plug	
2: Low pressure plug	
3: oil charge plug	
4: oil level sight glass	
5: crankcase heater seat	
6: oil drain plug	
12: oil return plug	
DV: Discharge valve	
SV: Suction Valve	
NP: Nameplate	

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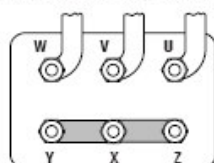
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Operating mode	= normal

Technical data

Make	Reciprocating/ semi-hermetic/ one stage
Nominal operating frequency	50 Hz
Nominal compressor speed @50 Hz	1450 1/min
Nominal displacement @50 Hz	15,36 ml/h
Number of pistons	2
Net weight	49 kg
Lubricant	FRASCOLD POE32
Oil charge	1,2 l
Locked rotor current (LRA)	43,7 A
Maximum allowed operating current (MRA)	10,1 A
Sound power level 5/50°C R404A @50Hz	62,0 dB(A)
Sound power level -10/45°C R404A @50Hz	66,7 dB(A)

Motor connections

Serie A-B-C-D-F-Q Series



400V
3Ph
50Hz
DOL-STAR

Characteristics

Polynomial coefficients according to EN 12900

Coefficient	Refrigerating capacity	Power input	Mass flow
C1	2,06961E+04	3,40458E+02	1,10834E-01
C2*S	7,29823E+02	-1,23263E+02	4,20335E-03
C3*D	-1,98094E+02	1,37195E+02	-1,60839E-04
C4*S _c	9,10273E+00	-3,35415E+00	6,44993E-05
C5*S*D	-6,86174E+00	4,58949E+00	-6,51173E-06
C6*D _c	-4,07224E-01	-1,19571E+00	-4,82572E-06
C7*S _i	3,13471E-02	-2,45365E-02	4,14302E-07
C8*S _c *D	-8,24642E-02	4,17820E-02	-1,40338E-07
C9*S*D _c	-1,13812E-02	-1,99746E-02	-1,11733E-07
C10*D _i	1,10117E-03	5,10274E-03	8,40606E-09

Reference conditions:	Ambient temperature:	32,0 °C
	Suction gas temperature:	20,0 °C
	Liquid subcooling:	0,0 K
	Nominal operating frequency:	50 Hz

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Accessories

Accessories	Model	Technical data	
1 Motor protector	ECA01	230V AC	
2 Rubber damper	T00SSA1	30X30 45SH M8 A-B-C	
1 Crankcase heater	T00CH13 A-D	230V	optional
2 Head fan	SZ_FM1 (standard cooling)	230V - 1ph - 50/60 Hz	optional
3 Motor protector INT69 DIAGNOSE	T00ECA01D	115V-230V 50/60 Hz	optional
4 USB adpter for INT69 DIAGNOSE	T00EC57		optional