

Positive temperature   R-134a																
Compressor			Cooling capacity / Cold room volume according to cold room temperature													
Model	HP	Power supply	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	Power (kW)	Max. Current (A)	Evap. air flow (m <sup>3</sup> /h)	Conden. air flow (m <sup>3</sup> /h)	Weight (kg)	db(A)
			-5°C		0°C		5°C		10°C							
MSF-QY-10 068	3 1/2	400V	3281	42	4106	60	4998	69	5985	110	1,98	12,8	2100	3200	82+43	25
MSF-QY-20 086	4	400V	3523	45	4442	65	5429	75	6515	120	2,19	14,8	2100	3700	96+43	38
MSF-QY-21 108	5	400V	4226	58	5334	81	6521	130	7807	210	2,56	16,3	2700	3700	98+56	35
MSF-QY-22 136	6 1/2	400V	5749	80	7277	120	8831	189	10553	290	3,63	21,1	4150	3700	101+72	34
MSF-QY-33 171	8	400V	6746	100	8484	172	10295	197	12306	354	4,42	24,1	5200	4000	140+89	40
MSF-QY-33 215	10	400V	8426	130	10563	241	12857	268	15419	440	5,24	30,5	6200	6500	147+94	39
MSF-QY-34 271	13	400V	11099	165	13776	256	16622	346	19777	550	7,19	40,2	8300	6500	152+118	38

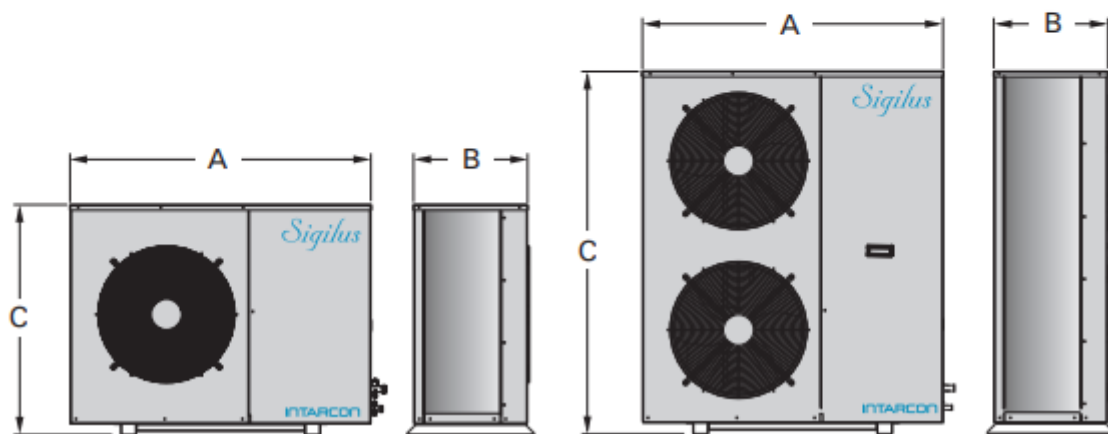
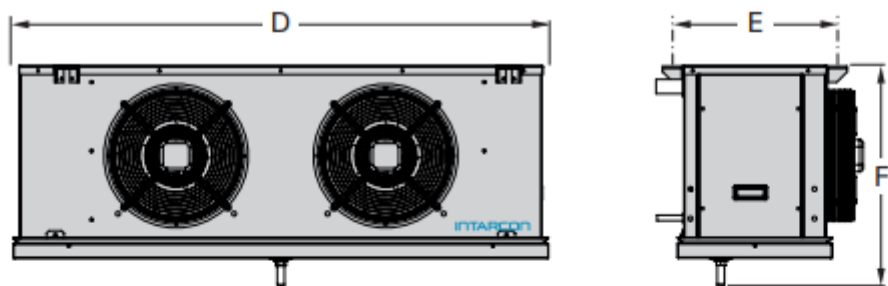
Positive temperature   R-449A																
			-5°C		0°C		5°C		10°C							
MSF-QG-10 038	1 3/4	400V	3280	31	3919	48	4625	75	5472	120	1,77	7,4	2100	3200	82+43	29
MSF-QG-20 048	2	400V	3964	43	4736	63	5572	95	6605	150	2,21	8,8	2100	3700	84+43	26
MSF-QG-20 054	2 1/2	400V	4395	48	5197	72	6078	110	7158	170	2,38	9,4	2100	3700	85+43	26
MSF-QG-21 060	3	400V	5081	61	6032	89	7055	130	8328	200	2,84	10,4	2700	3700	88+56	26
MSF-QG-21 068	3 1/2	400V	5519	78	6528	110	7601	160	8942	250	3,21	11,4	2700	3700	88+56	25
MSF-QG-32 086	4	400V	6787	91	8180	130	9707	190	11545	300	4,13	13,6	4150	4000	115+72	38
MSF-QG-32 108	5	400V	8623	125	10181	175	11880	255	13939	400	5,05	16,7	4150	6500	120+72	35
MSF-QG-43 136	6 1/2	400V	11105	160	13146	220	15399	320	18145	500	6,63	21,5	6200	7000	135+89	34
MSF-QG-44 160	8	400V	11597	170	14009	230	16660	340	19806	530	7,59	26,0	8300	7000	157+118	40

Negative temperature   R-449A																
Model	HP	Power supply	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	Evap. fan (Ømm)	Liq-Gas cooling conn.	Power (kW)	Max. Current (A)	Evap. Air flow (m <sup>3</sup> /h)	Conden. air flow (m <sup>3</sup> /h)	Weight (kg)	db(A)
			-25°C		-20°C		-15°C									
BSF-QG-10 075	2 1/2	230V	1760	14	2465	27	3110	48	1x 350	1/4-5/8	2,30	25,1	2100	1700	90+43	37
BSF-QG-20 096	3 1/2	400V	2456	20	3135	43	3881	74	1x 350	1/4-3/4	2,39	11,5	2100	3700	97+43	39
BSF-QG-21 108	4 1/4	400V	3023	28	3883	50	4772	86	1x 350	1/4-7/8	2,76	13,5	2700	3700	97+56	37

BSF-QG-22 136	5	400V	4159	53	5116	83	6146	130	2x 350	$\frac{3}{8} - 1\frac{1}{8}$	4,02	16,4	4150	3700	97+72	32
BSF-QG-33 215	7 1/2	400V	5970	80	7605	130	9334	200	3x 350	$\frac{1}{2} - 1\frac{1}{8}$	5,63	25,8	620	6500	147+94	39
BSF-QG-34 271	10	400V	8005	120	9839	185	11798	230	4x 350	$\frac{1}{2} - 1\frac{3}{8}$	7,15	28,8	8300	6500	147+118	39

Options:

- Change (voltage) power supply
- Built-in oil separator
- Anti-corrosion condenser coil coating
- Coil protection grill
- Anti-corrosion evaporator coil coating
- Larger sized multifunctional control



Dimensions (mm)	A	B	C	D	E	F
10 series	1 030	375	580	880	455	581
20 series	1 080	415	830	880	455	581
21 series	1 080	415	830	1 230	455	581
22 series	1 080	415	830	1 530	455	581
32 series	1 150	480	1 100	1 530	455	581
33 series	1 150	480	1 100	1 930	455	581
34 series	1 150	480	1 100	2 430	455	581
43 series	1 150	480	1 350	1 930	455	581
44 series	1 150	480	1 350	2 430	455	581