

Mitsubishi Compressors



표준 사항

사 양

모델	실린더수	내경	스트로크	배출		증발온도	오일펌프	오일투입량	중량	규격 (mm)				서비스 밸브		전기적 수치	
		(mm)	(mm)	CMH at	회전당CC	사용범위		(L)	(kg)	길이	폭	높이	탑재중심	흡입	토출	380V/3상	380V/3상
				1750RPM				SUNISO3GS						(mm)	(mm)	FLA	LRA
FA2SSX	2	50	28	11.5	110	-45 to -5		1.3	53	446	248	319	212X228	19.1S	12.7S	4.7	27.9
FA2MSX	2	50	40	16.5	157.1	-45 to -5		1.6	63	471	248	361	212X248	25.4S	12.7S	6.7	39
FA2LSX	2	50	90	21.4	204.2	-45 to -5	•	1.8	70	513	248	388	212X262	25.4S	12.7S	8.2	47.3
FC2LSX	2	56	54	27.9	266	-45 to -5	•	2.5	88	542	300	414	260X272	25.4S	19.1S	9.5	65.2
FB2LSX	2	62	52	33.0	314	-45 to -5	•	4.0	110	526	330	450	280X268	31.8S	19.1S	11.5	73
FB3MSX	3	62	50	47.6	452.9	-45 to -5	•	6.2	130	637	330	449	280X378	31.8S	19.1S	15.6	84.7
FB4LSX	4	62	52	65.9	628	-45 to -5	•	7.0	182	674	512	500	292X400	38.1S	25.4S	21.9	129.4
FB4ESX	4	62	67	85.0	809.1	-45 to -5	•	7.0	189	674	512	500	292X400	44.5S	31.8S	29.8	182

아래의 전압들은 수요자의 요구에 의해 생산가능

용량근거 : 45°C Condensing temp
20°C Suction return gas temp.
5 °C Subcooling

크랭크케이스히타 : 3HP ~ 7.5HP 110w
10HP ~ 20HP 180w

전압	상	Hz	코드
440/460	3	60	Y
380	3	60	X
380/415	3	50	Y
346	3	50	Y
220	3	50	Z
200	3	50/60	T

F-series 단단 압축기 능력표

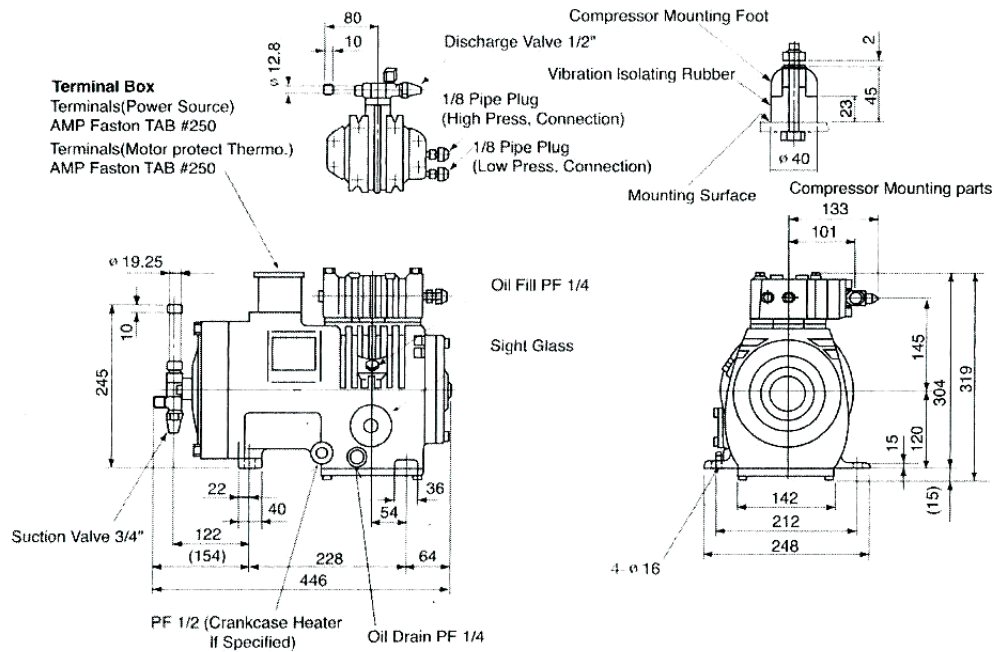
단위 : kcal/h

COMP.	축마력	응축온도	증발온도(Evaporating Temperature °C)									
MODEL	(HP/KW)	(°C)	-45	-40	-35	-30	-25	-20	-17	-15	-10	-5
FA-2SSX	3/2.2	40	(350)	(590)	(870)	(1270)	(1740)	2,850	3,300	3,600	4,450	5,450
		45	(350)	(590)	(870)	(1270)	(1740)	2,900	3,300	3,550	4,350	5,200
FA-2MSX	4/3.0	40	(650)	(1040)	(1510)	(2110)	(2770)	4,500	5,150	5,650	6,950	8,450
		45	(650)	(1040)	(1510)	(2110)	(2770)	4,400	5,000	5,400	6,550	7,850
FA-2LSX	5/3.7	40	(990)	(1530)	(2150)	(2910)	(3910)	6,000	6,900	7,500	9,300	11,400
		45	(990)	(1530)	(2150)	(2910)	(3910)	5,800	6,600	7,200	8,700	10,500
FC-2LSX	6/4.5	40	(1510)	(2210)	(3170)	(4260)	(5670)	8,000	9,300	10,200	12,800	15,700
		45	(1510)	(2210)	(3170)	(4260)	(5670)	7,700	8,800	9,600	11,800	14,300
FB-2LSX	7.5/5.5	40	(2040)	(2990)	(4200)	(5660)	(7310)	9,900	11,400	12,400	15,400	18,800
		45	(2040)	(2990)	(4200)	(5660)	(7310)	9,700	10,900	11,900	14,500	17,500
FB-3MSX	10/7.5	40	(2990)	(4530)	(6280)	(8530)	(10920)	14,000	16,100	17,600	21,800	26,700
		45	(2990)	(4530)	(6280)	(8530)	(10920)	13,900	15,800	17,100	20,650	24,500
FB-4LSX	15/10.8	40	(3940)	(5910)	(8320)	(11320)	(14880)	19,800	22,800	24,900	30,900	37,800
		45	(3940)	(5910)	(8320)	(11320)	(14880)	19,200	21,800	23,900	29,200	35,100
FB-4ESX	20/15	40	(6630)	(9270)	(12410)	(16380)	(21200)	26,200	29,900	32,700	40,100	48,800
		45	(6630)	(9270)	(12410)	(16380)	(21200)	25,700	29,300	31,700	38,600	46,300

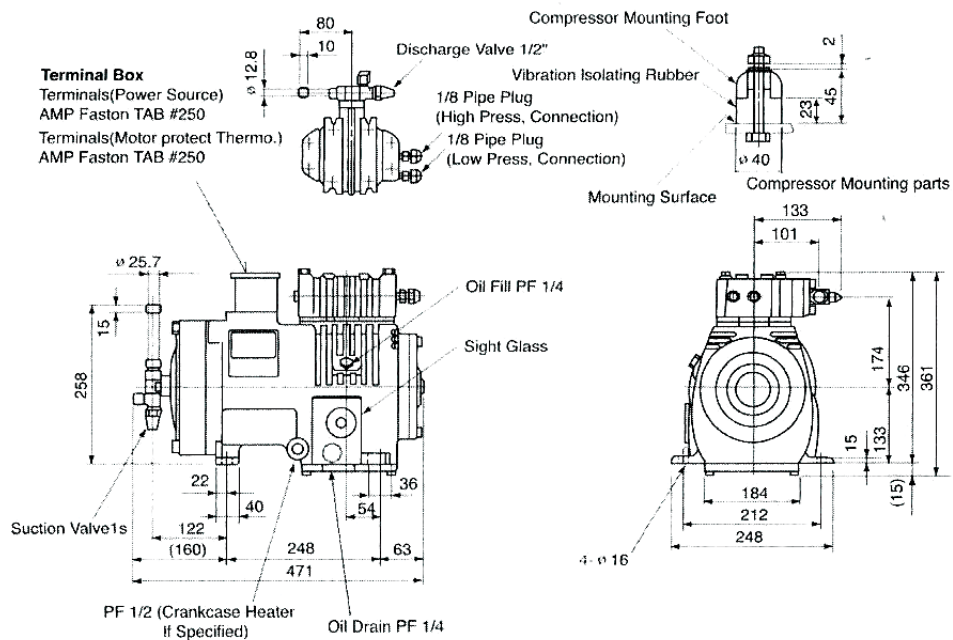
※()안의 숫자는 INJECTION KIT 부착시 능력임.

외형도

FA-2SSX

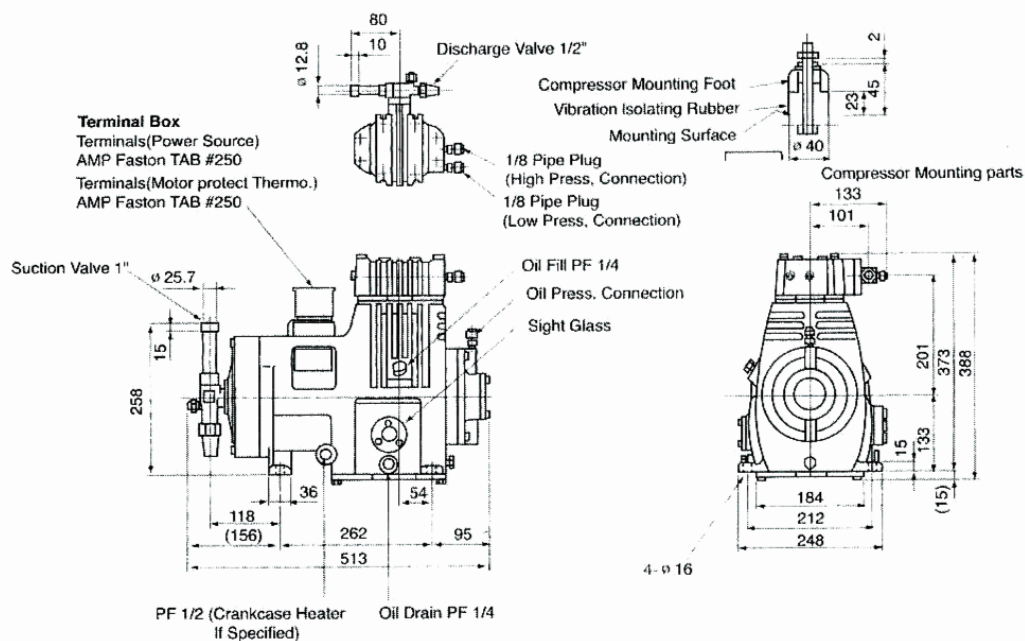


FA-2MSX

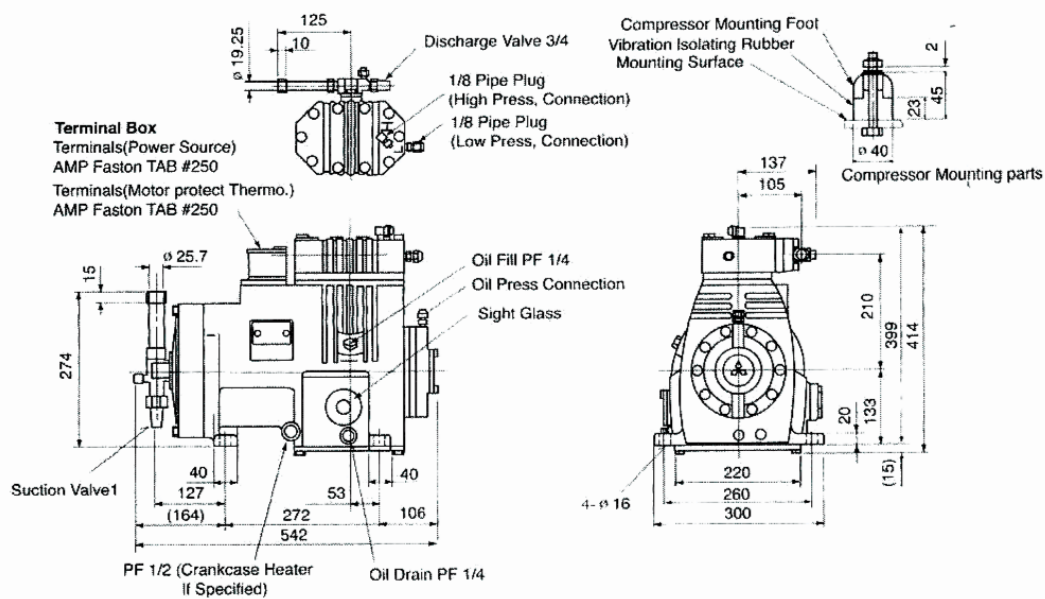


외형도

FA-2LSX

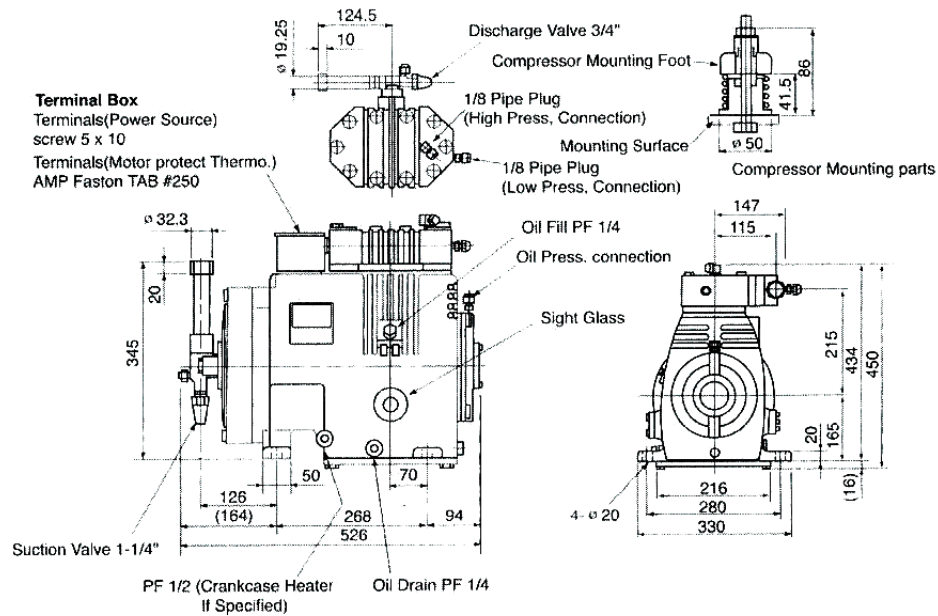


FC-2LSX

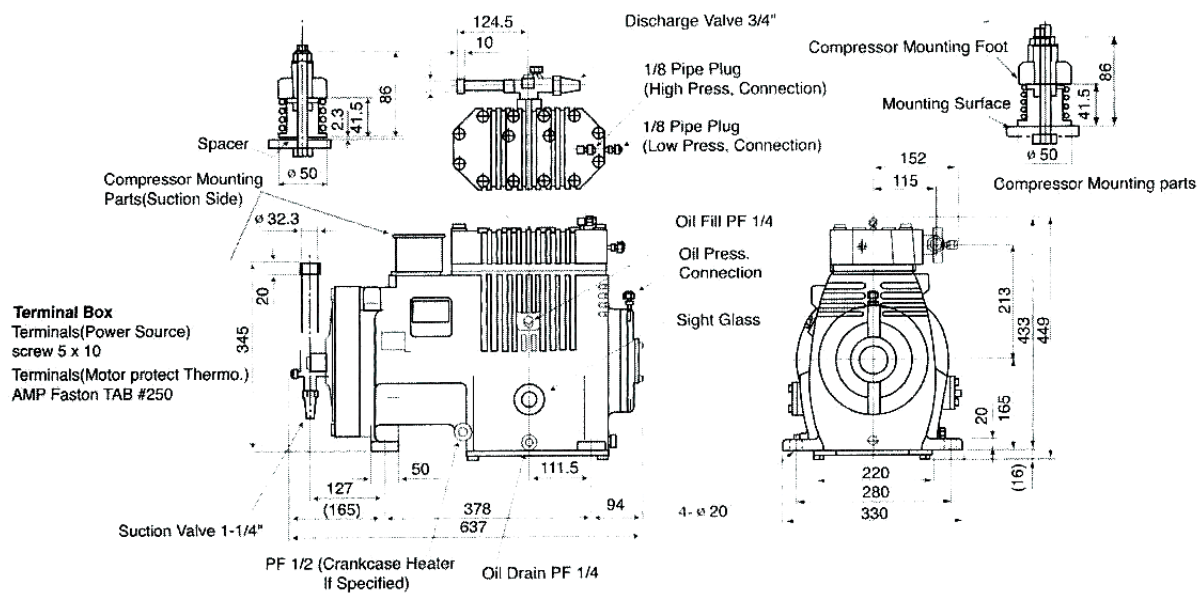


외형도

FB-2LSX

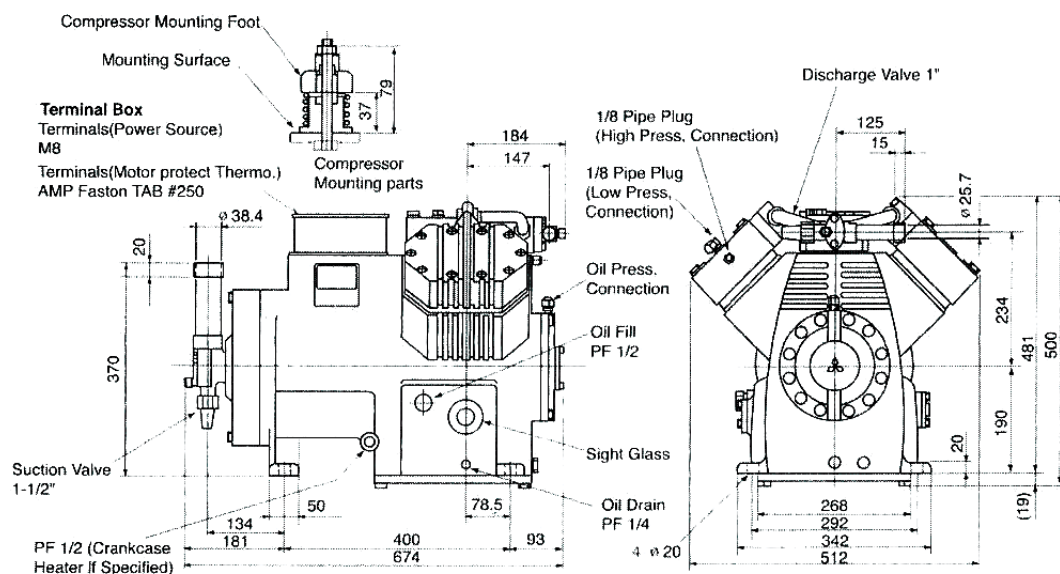


FB-3MSX

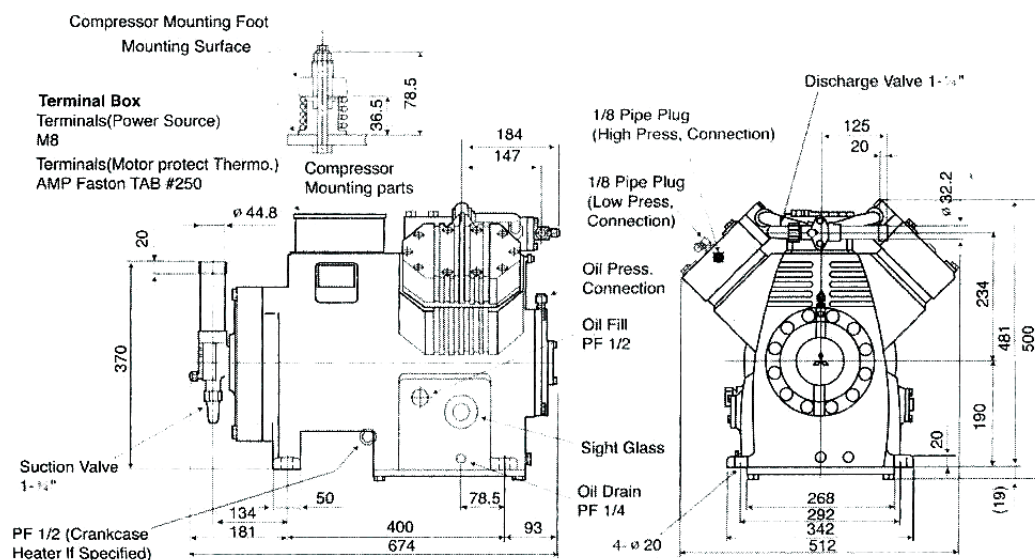


외형도

FB-4LSX



FB-4ESX



표준 사항

Single Screw Compressors MS-Type



MITSUBISHI SEMI-HERMETIC SCREW COMPRESSOR

테크니컬 데이터

		MS-13L	MS-14M	MS-14L	MS-18S	MS-18M	MS-18L	MS-20M		
Type of Compressor		Single Screw, Semi-Hermetic, Single Stage								
Screw Diameter		130	145		181			208		
Gaterotor Diameter		136	145	153	170	181	190	208		
Rotating Speed at 50/60Hz		r.p.m	2880 / 3470							
Swept Volume at 50/60Hz		m ³ /h	133.86/161.29	158.24/190.66	189.75/228.63	250.03/301.25	312.86/376.95	369.29/444.94	473.7/570.7	
Refrigerant			R22							
Capacity control		%	100 - 70 - 40 - 0 (0% at Starting Only)							
Injection System			Oil Injection + Liquid Refrigerant Injection							
Motor	Type		3 Ph, 2P, Squirrel Cage							
	Nominal Output	kw	30	37	45	60	75	90	110	
	Type of Starter		Y - Δ							
	Frequency	Hz	50/60							
	Rated Voltage	V	200, 380, 400 / 200, 220, 380, 400, 440							380,400/400,440
	Insulation		Class B							
Lubricant	Oil		SUNISO 4GS							
	Charge	ℓ	9		12			20		
Oil Heater		W	180		250			400		
Weight		Kg	390	440	460	760	800	870	1100	

표준 사항

MS-13L(40HP)

SEMI-HERMETIC SCREW, 380V, R22

SH/SC = 10/5℃ (Q,P : Kw/h)

<60Hz>

운행온도 (℃)		증발온도 [Evaporating Temperature(℃)]								
		-30	-25	-20	-15	-10	-5	0	5	10
25	Q(냉각능력)	43.0	57.0	72.1	90.7	111.6	136.0	164.0		
	P(소비전력)	24.3	25.0	25.4	25.8	27.0	28.4	29.6		
	C.O.P	1.77	2.28	2.84	3.52	4.13	4.79	5.54		
30	Q(냉각능력)	39.5	52.3	67.4	84.9	105.8	129.1	155.8	187.2	
	P(소비전력)	27.1	28.0	28.7	29.1	29.7	31.1	32.6	33.9	
	C.O.P	1.45	1.87	2.35	2.92	3.56	4.15	4.78	5.52	
35	Q(냉각능력)	34.9	47.7	61.6	79.1	98.8	120.9	147.7	176.7	210.5
	P(소비전력)	30.1	31.1	32.0	32.7	33.0	34.0	35.8	37.4	38.4
	C.O.P	1.15	1.53	1.93	2.42	2.99	3.56	4.13	4.72	5.48
40	Q(냉각능력)	30.2	41.9	55.8	72.1	90.7	112.8	138.4	166.3	200.0
	P(소비전력)	33.1	34.4	35.5	36.4	37.0	37.4	38.9	40.9	42.6
	C.O.P	0.91	1.22	1.57	1.98	2.45	3.02	3.56	4.07	4.69
45	Q(냉각능력)	24.4	34.9	48.8	65.1	82.6	103.5	127.9	155.8	187.2
	P(소비전력)	36.3	37.8	39.1	40.2	41.1	41.8	42.4	44.1	46.4
	C.O.P	0.67	0.92	1.25	1.62	2.01	2.48	3.02	3.53	4.03
50	Q(냉각능력)			40.7	55.8	73.3	94.2	117.4	144.2	174.4
	P(소비전력)			43.0	44.3	45.4	46.4	46.8	47.9	50.2
	C.O.P			0.95	1.28	1.61	2.03	2.51	3.01	3.47
55	Q(냉각능력)				47.7	64.0	82.6	105.8	131.4	159.3
	P(소비전력)				48.5	49.9	51.1	51.9	52.4	54.2
	C.O.P				0.98	1.28	1.62	2.04	2.51	2.94
60	Q(냉각능력)						70.9	93.0	116.3	144.2
	P(소비전력)						56.0	57.2	57.9	58.5
	C.O.P						1.27	1.63	2.01	2.46
65	Q(냉각능력)								102.3	127.9
	P(소비전력)								63.6	64.3
	C.O.P								1.61	1.99

MS-14M(50HP)

SEMI-HERMETIC SCREW, 380V, R22

SH/SC = 10/5℃ (Q,P : Kw/h)

<60Hz>

운행온도 (℃)		증발온도 [Evaporating Temperature(℃)]								
		-30	-25	-20	-15	-10	-5	0	5	10
25	Q(냉각능력)	57.0	72.1	90.7	112.8	137.2	166.3	198.8		
	P(소비전력)	28.7	29.5	30.0	30.5	31.9	33.5	34.9		
	C.O.P	1.99	2.44	3.02	3.70	4.30	4.96	5.70		
30	Q(냉각능력)	52.3	67.4	86.0	105.8	130.2	158.1	189.5	226.7	
	P(소비전력)	32.0	33.0	33.8	34.3	35.1	36.7	38.5	40.0	
	C.O.P	1.63	2.04	2.54	3.08	3.71	4.31	4.92	5.67	
35	Q(냉각능력)	47.7	62.8	79.1	100.0	123.3	150.0	180.2	216.3	255.8
	P(소비전력)	35.5	36.7	37.7	38.5	38.9	40.1	42.3	44.2	45.3
	C.O.P	1.34	1.71	2.10	2.60	3.17	3.74	4.26	4.89	5.65
40	Q(냉각능력)	41.9	55.8	73.3	91.9	115.1	140.7	169.8	204.7	243.0
	P(소비전력)	39.0	40.6	41.9	43.0	43.7	44.1	45.9	48.2	50.3
	C.O.P	1.07	1.37	1.75	2.14	2.63	3.19	3.70	4.25	4.83
45	Q(냉각능력)	36.0	48.8	65.1	83.7	105.8	130.2	159.3	191.9	229.1
	P(소비전력)	42.8	44.6	46.2	47.5	48.5	49.3	50.0	52.1	54.7
	C.O.P	0.84	1.09	1.41	1.76	2.18	2.64	3.19	3.68	4.19
50	Q(냉각능력)			57.0	74.4	95.3	119.8	146.5	177.9	214.0
	P(소비전력)			50.7	52.2	53.6	54.7	55.2	56.6	59.2
	C.O.P			1.12	1.43	1.78	2.19	2.65	3.14	3.61
55	Q(냉각능력)				64.0	83.7	107.0	133.7	164.0	197.7
	P(소비전력)				57.3	58.9	60.3	61.3	61.8	63.9
	C.O.P				1.12	1.42	1.77	2.18	2.65	3.09
60	Q(냉각능력)						94.2	118.6	147.7	180.2
	P(소비전력)						66.1	67.5	68.3	69.0
	C.O.P						1.43	1.76	2.16	2.61
65	Q(냉각능력)								130.2	161.6
	P(소비전력)								75.1	75.9
	C.O.P								1.73	2.13

표준 사항

MS-14L(60HP)

SEMI-HERMETIC SCREW, 380V, R22

SH/SC = 10/5℃ (Q,P : Kw/h)

<60Hz>

운행온도 (℃)		증발온도 [Evaporating Temperature(℃)]								
		-30	-25	-20	-15	-10	-5	0	5	10
25	Q(냉각능력)	70.9	89.5	111.6	137.2	167.4	201.2	240.7		
	P(소비전력)	34.5	35.4	36.0	36.6	38.3	40.2	42.0		
	C.O.P	2.06	2.53	3.10	3.75	4.37	5.00	5.73		
30	Q(냉각능력)	65.1	83.7	105.8	130.2	159.3	193.0	230.2	274.4	
	P(소비전력)	38.4	39.7	40.6	41.2	42.1	44.1	46.2	48.0	
	C.O.P	1.70	2.11	2.61	3.16	3.78	4.38	4.98	5.72	
35	Q(냉각능력)	60.5	77.9	98.8	122.1	150.0	182.6	219.8	261.6	310.5
	P(소비전력)	42.6	44.1	45.3	46.3	46.7	48.1	50.8	53.1	54.4
	C.O.P	1.42	1.77	2.18	2.64	3.21	3.80	4.33	4.93	5.71
40	Q(냉각능력)	53.5	70.9	90.7	114.0	140.7	172.1	207.0	248.8	294.2
	P(소비전력)	46.9	48.8	50.3	51.6	52.5	53.0	55.1	57.9	60.4
	C.O.P	1.14	1.45	1.80	2.21	2.68	3.25	3.76	4.30	4.87
45	Q(냉각능력)	46.5	62.8	81.4	103.5	130.2	159.3	194.2	233.7	277.9
	P(소비전력)	51.4	53.6	55.5	57.0	58.2	59.2	60.1	62.5	65.7
	C.O.P	0.90	1.17	1.47	1.82	2.24	2.69	3.23	3.74	4.23
50	Q(냉각능력)			72.1	93.0	118.6	146.5	180.2	217.4	260.5
	P(소비전력)			60.9	62.7	64.3	65.7	66.3	67.9	71.1
	C.O.P			1.18	1.48	1.84	2.23	2.72	3.20	3.66
55	Q(냉각능력)				81.4	104.7	132.6	164.0	200.0	241.9
	P(소비전력)				68.8	70.7	72.4	73.5	74.3	76.7
	C.O.P				1.18	1.48	1.83	2.23	2.69	3.15
60	Q(냉각능력)						116.3	146.5	181.4	220.9
	P(소비전력)						79.3	81.1	82.0	82.9
	C.O.P						1.47	1.81	2.21	2.66
65	Q(냉각능력)								160.5	198.8
	P(소비전력)								90.2	91.2
	C.O.P								1.78	2.18

MS-18S(80HP)

SEMI-HERMETIC SCREW, 380V, R22

SH/SC = 10/5℃ (Q,P : Kw/h)

<60Hz>

운행온도 (℃)		증발온도 [Evaporating Temperature(℃)]								
		-30	-25	-20	-15	-10	-5	0	5	10
25	Q(냉각능력)	91.9	117.4	146.5	180.2	219.8	264.0	316.3		
	P(소비전력)	45.3	46.6	47.4	48.1	50.3	52.9	55.2		
	C.O.P	2.03	2.52	3.09	3.75	4.37	4.99	5.73		
30	Q(냉각능력)	86.0	109.0	137.2	170.9	208.1	252.3	302.3	360.5	
	P(소비전력)	50.5	52.2	53.4	54.2	55.4	58.0	60.8	63.1	
	C.O.P	1.70	2.09	2.57	3.15	3.76	4.35	4.97	5.71	
35	Q(냉각능력)	77.9	101.2	129.1	160.5	196.5	239.5	288.4	344.2	407.0
	P(소비전력)	56.0	58.0	59.6	60.8	61.4	63.3	66.7	69.8	71.6
	C.O.P	1.39	1.74	2.17	2.64	3.20	3.78	4.32	4.93	5.68
40	Q(냉각능력)	69.8	91.9	118.6	148.8	183.7	225.6	272.1	325.6	387.2
	P(소비전력)	61.6	64.1	66.1	67.8	69.0	69.7	72.4	76.1	79.4
	C.O.P	1.13	1.43	1.79	2.19	2.66	3.24	3.76	4.28	4.88
45	Q(냉각능력)	60.5	81.4	107.0	136.0	169.8	209.3	254.7	305.8	365.1
	P(소비전력)	67.6	70.4	72.9	75.0	76.6	77.9	79.0	82.2	86.4
	C.O.P	0.89	1.16	1.47	1.81	2.22	2.69	3.22	3.72	4.23
50	Q(냉각능력)			93.0	122.1	154.7	191.9	236.0	284.9	341.9
	P(소비전력)			80.0	82.5	84.6	86.4	87.1	89.3	93.5
	C.O.P			1.16	1.48	1.83	2.22	2.71	3.19	3.66
55	Q(냉각능력)				105.8	137.2	173.3	215.1	262.8	316.3
	P(소비전력)				90.4	93.0	95.1	96.7	97.6	100.9
	C.O.P				1.17	1.48	1.82	2.22	2.69	3.13
60	Q(냉각능력)						152.3	191.9	237.2	289.5
	P(소비전력)						104.3	106.6	107.8	109.0
	C.O.P						1.46	1.80	2.20	2.66
65	Q(냉각능력)								210.5	259.3
	P(소비전력)								118.6	119.9
	C.O.P								1.77	2.16

표준 사항

MS-18M(100HP)

SEMI-HERMETIC SCREW, 380V, R22

SH/SC = 10/5℃ (Q,P : Kw/h)

<60Hz>

운행온도 (℃)		증 발 온 도 [Evaporating Temperature(℃)]								
		-30	-25	-20	-15	-10	-5	0	5	10
25	Q(냉각능력)	119.8	151.2	187.2	230.2	279.1	338.0	401.2		
	P(소비전력)	56.8	58.4	59.4	60.3	63.1	66.3	69.2		
	C.O.P	2.11	2.59	3.15	3.82	4.42	5.07	5.80		
30	Q(냉각능력)	112.8	143.0	177.9	218.6	266.3	322.1	384.9	457.0	
	P(소비전력)	63.3	65.4	66.9	67.9	69.4	72.7	76.2	79.1	
	C.O.P	1.78	2.19	2.66	3.22	3.84	4.43	5.05	5.78	
35	Q(냉각능력)	103.5	132.6	166.3	207.0	252.3	305.8	366.3	436.0	516.3
	P(소비전력)	70.2	72.7	74.7	76.3	77.0	79.3	83.7	87.4	89.7
	C.O.P	1.47	1.82	2.23	2.71	3.28	3.86	4.38	4.99	5.76
40	Q(냉각능력)	94.2	122.1	154.7	193.0	237.2	288.4	347.7	415.1	490.7
	P(소비전력)	77.3	80.4	82.9	85.0	86.5	87.3	90.8	95.4	99.5
	C.O.P	1.22	1.52	1.87	2.27	2.74	3.30	3.83	4.35	4.93
45	Q(냉각능력)	82.6	109.3	140.7	176.7	219.8	269.8	325.6	390.7	465.1
	P(소비전력)	84.8	88.3	91.4	94.0	96.0	97.6	99.0	103.0	108.3
	C.O.P	0.97	1.24	1.54	1.88	2.29	2.76	3.29	3.79	4.29
50	Q(냉각능력)			124.4	159.3	201.2	247.7	302.3	365.1	436.0
	P(소비전력)			100.3	103.4	106.0	108.3	109.2	111.9	117.2
	C.O.P			1.24	1.54	1.90	2.29	2.77	3.26	3.72
55	Q(냉각능력)				140.7	179.1	224.4	276.7	337.2	404.7
	P(소비전력)				113.4	116.5	119.3	121.2	122.4	126.5
	C.O.P				1.24	1.54	1.88	2.28	2.75	3.20
60	Q(냉각능력)						198.8	248.8	305.8	370.9
	P(소비전력)						130.7	133.7	135.2	136.6
	C.O.P						1.52	1.86	2.26	2.72
65	Q(냉각능력)								273.3	334.9
	P(소비전력)								148.6	150.2
	C.O.P								1.84	2.23

MS-18L(120HP)

SEMI-HERMETIC SCREW, 380V, R22

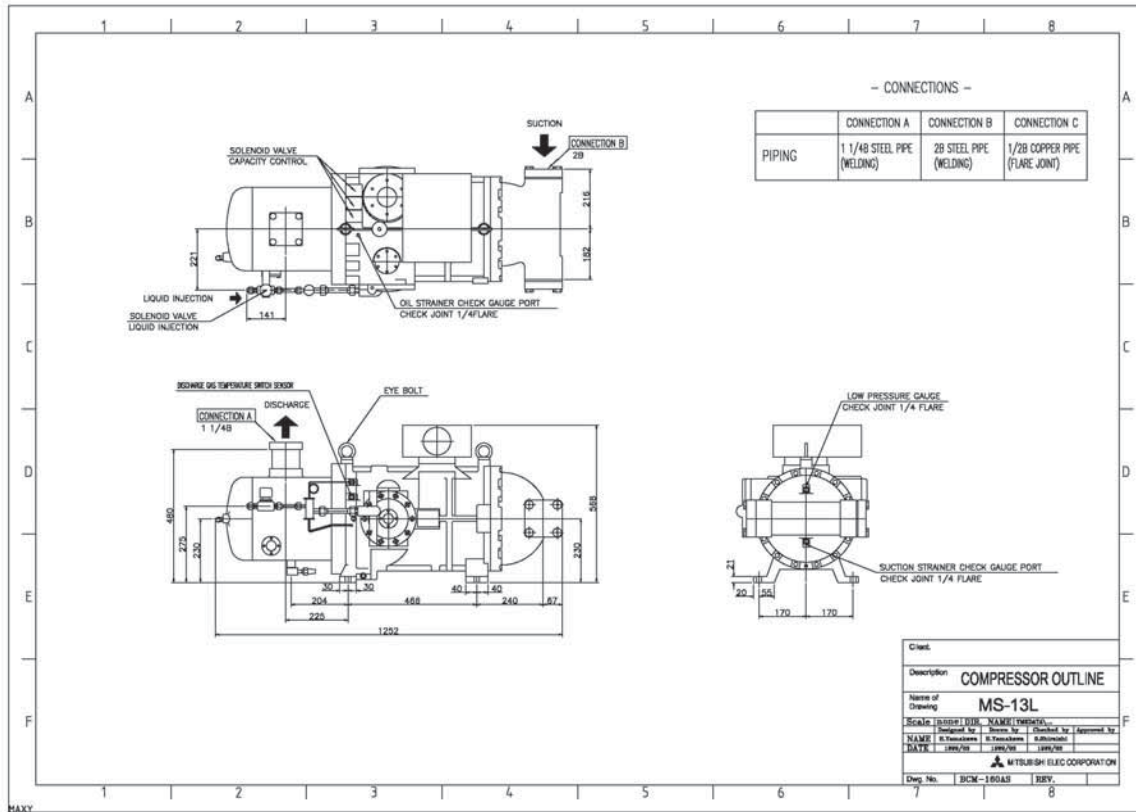
SH/SC = 10/5℃ (Q,P : Kw/h)

<60Hz>

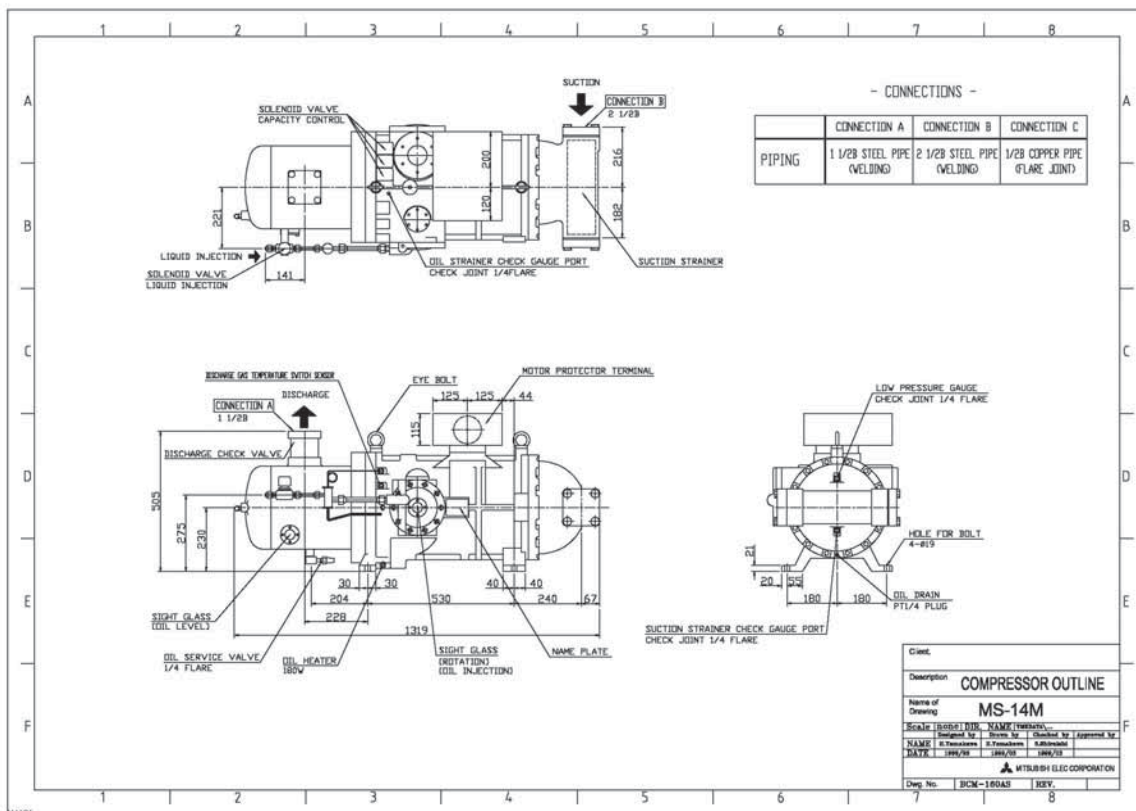
운행온도 (℃)		증 발 온 도 [Evaporating Temperature(℃)]								
		-30	-25	-20	-15	-10	-5	0	5	10
25	Q(냉각능력)	145.3	181.4	224.4	274.4	333.7	400.0	476.7		
	P(소비전력)	67.2	69.0	70.2	71.3	74.5	78.4	81.7		
	C.O.P	2.16	2.63	3.20	3.85	4.48	5.10	5.83		
30	Q(냉각능력)	136.0	172.1	212.8	261.6	318.6	383.7	458.1	543.0	
	P(소비전력)	74.8	77.3	79.1	80.3	82.0	86.0	90.1	93.5	
	C.O.P	1.82	2.23	2.69	3.26	3.89	4.46	5.08	5.81	
35	Q(냉각능력)	125.6	160.5	201.2	247.7	302.3	365.1	437.2	519.8	612.8
	P(소비전력)	82.9	85.9	88.2	90.1	91.0	93.8	98.9	103.3	106.0
	C.O.P	1.52	1.87	2.28	2.75	3.32	3.89	4.42	5.03	5.78
40	Q(냉각능력)	114.0	147.7	186.0	231.4	283.7	344.2	414.0	494.2	584.9
	P(소비전력)	91.3	95.0	97.9	100.5	102.2	103.2	107.3	112.8	117.6
	C.O.P	1.25	1.55	1.90	2.30	2.78	3.34	3.86	4.38	4.97
45	Q(냉각능력)	101.2	132.6	169.8	214.0	264.0	322.1	389.5	466.3	553.5
	P(소비전력)	100.2	104.3	108.1	111.1	113.5	115.4	117.0	121.8	128.0
	C.O.P	1.01	1.27	1.57	1.93	2.33	2.79	3.33	3.83	4.32
50	Q(냉각능력)			151.2	193.0	241.9	297.7	361.6	436.0	519.8
	P(소비전력)			118.6	122.2	125.3	128.0	129.1	132.3	138.5
	C.O.P			1.27	1.58	1.93	2.33	2.80	3.30	3.75
55	Q(냉각능력)				170.9	217.4	270.9	332.6	402.3	482.6
	P(소비전력)				134.0	137.7	141.0	143.3	144.6	149.5
	C.O.P				1.28	1.58	1.92	2.32	2.78	3.23
60	Q(냉각능력)						240.7	298.8	366.3	443.0
	P(소비전력)						154.5	158.0	159.8	161.4
	C.O.P						1.56	1.89	2.29	2.74
65	Q(냉각능력)								327.9	401.2
	P(소비전력)								175.6	177.6
	C.O.P								1.87	2.26

외형도

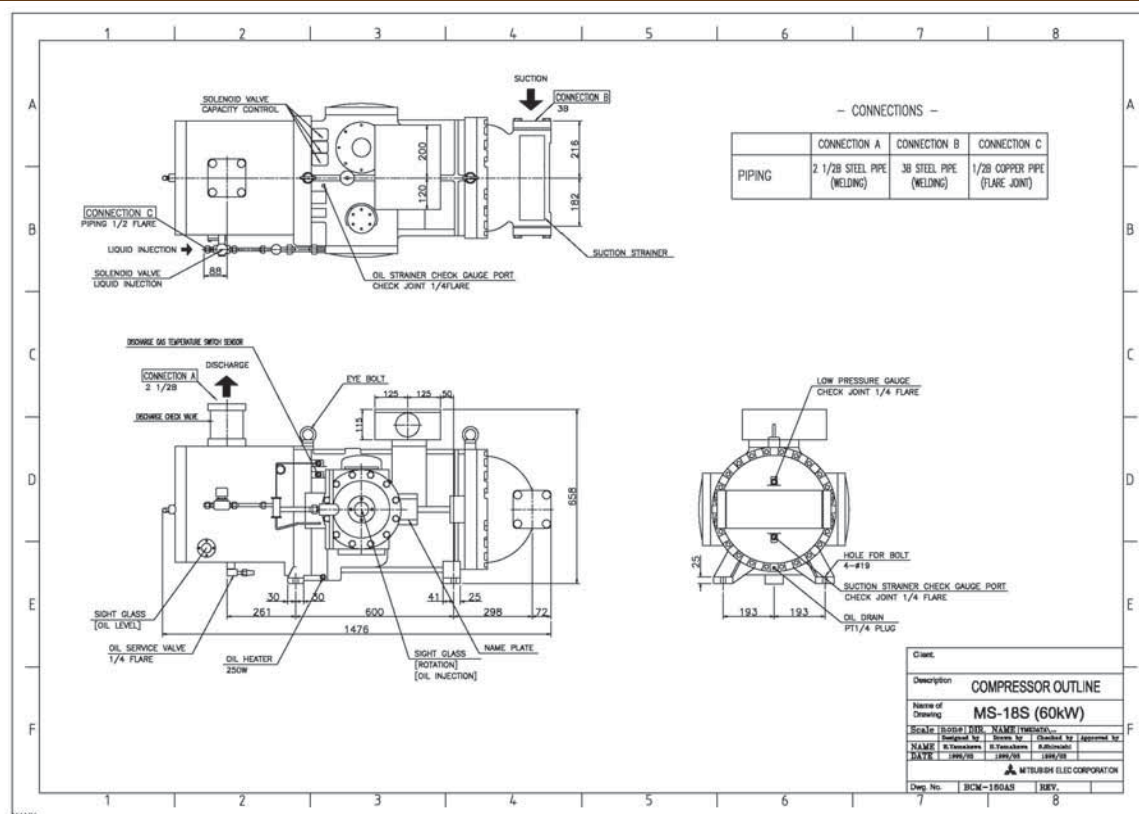
MS-13L



MS-14M

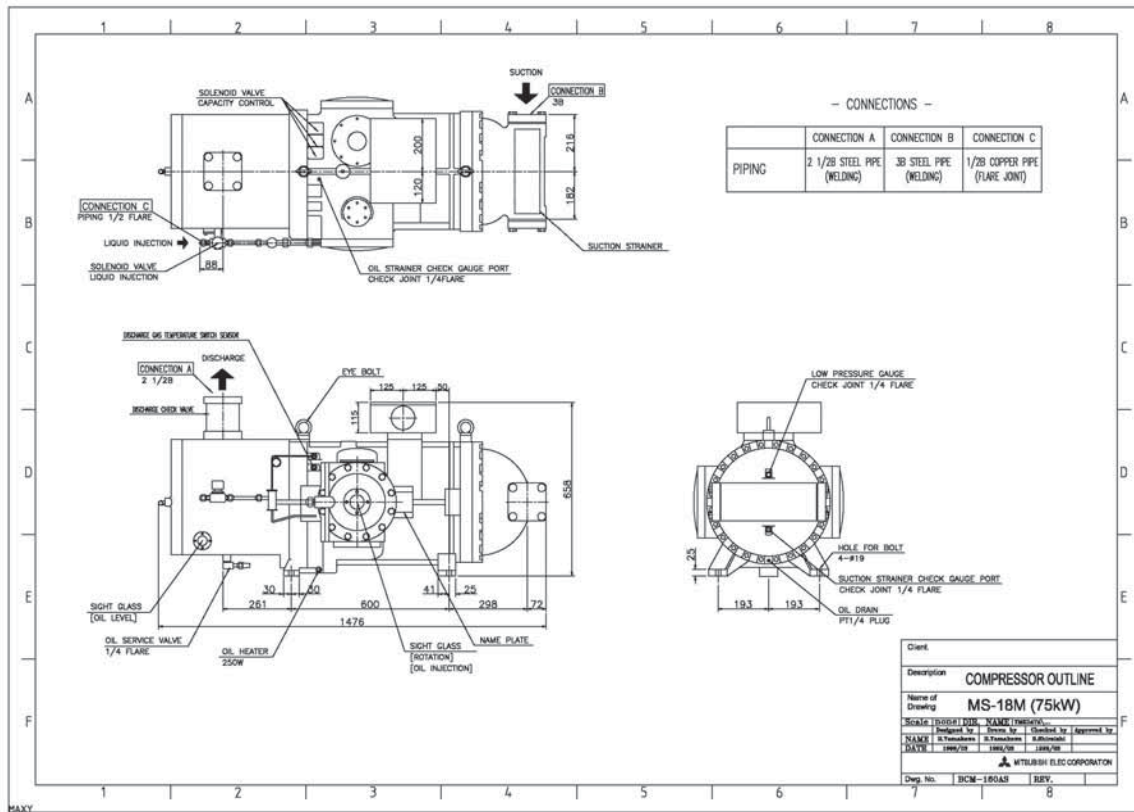


MS-14L



외형도

MS-18M(75kW)



MS-18L

