

MYCOM

W SERIES

New, Premium Industrial Reciprocating Compressors



***Greater
Reliability,
Higher Performance***

MYCOM TECHNOLOGY KEEPS ON

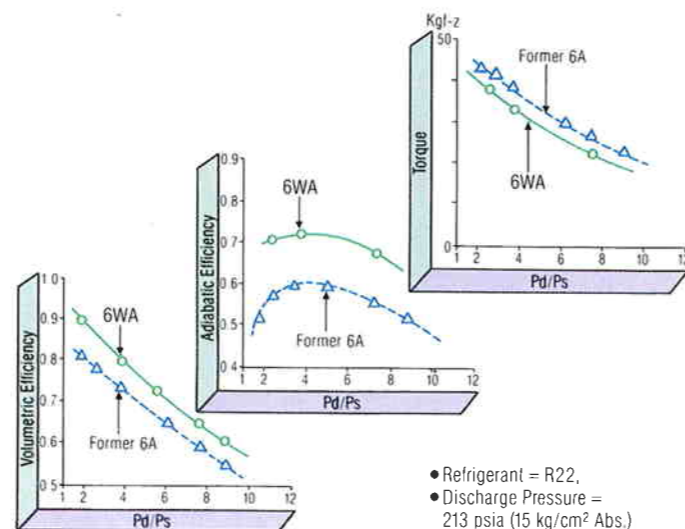
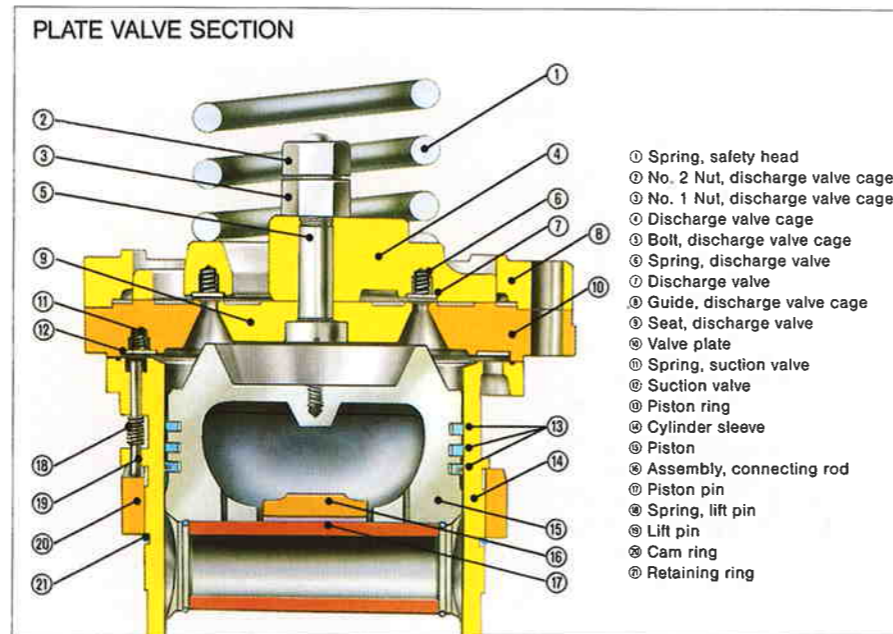
WHAT MAKES W SERIES RECIPROCATING COMPRESSORS THE PRIDE OF MYCOM

A MAJOR UPGRADE OF MYCOM'S A, B AND J SERIES COMPRESSORS.

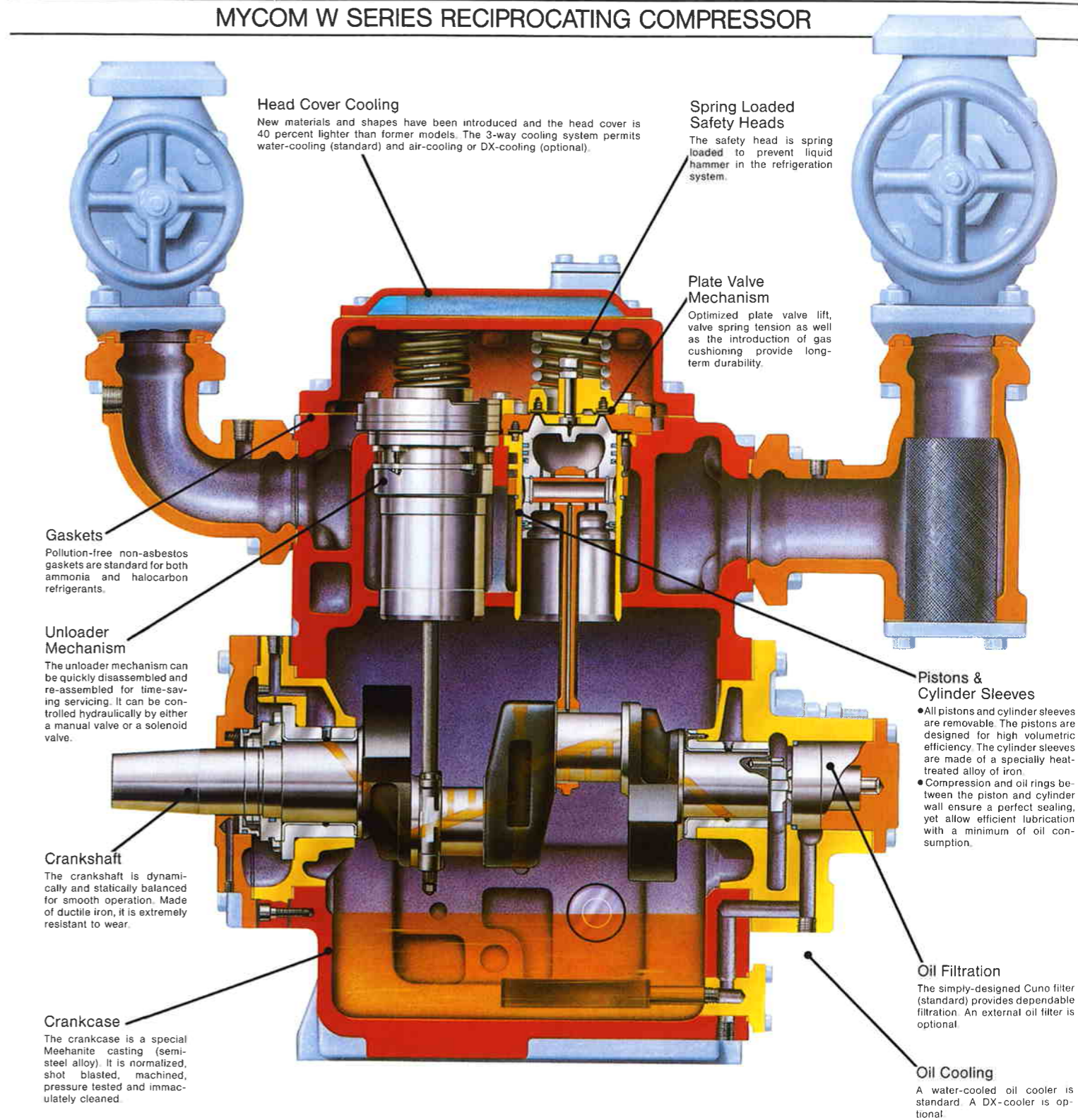
For many years MYCOM has met diverse industrial needs with a family of high-quality, strong and easy-to-operate compressors. A, B and J Series Compressors have proved their superiority in countless applications, setting the standard in terms of performance and durability. At MYCOM, the pursuit of advanced technology never ceases. And so, after extensive theoretical fluid equipment performance analysis and experimental testing in cooperation with experts at Trondheim University, Norway, MYCOM is proud to announce what may be the most sophisticated reciprocating compressors in the world today – the MYCOM W Series.

UPGRADED PERFORMANCE MAXIMIZES THE ENERGY SAVING.

Optimizing the design of the plate valve section is the key to the new standard of performance. The W Series Compressor incorporates major changes in the plate valve lift, valve spring lift and gas cushioning based on the results of the Trondheim studies. These changes dramatically enhance performance and provide more refrigeration per BHP.



MYCOM W SERIES RECIPROCATING COMPRESSOR

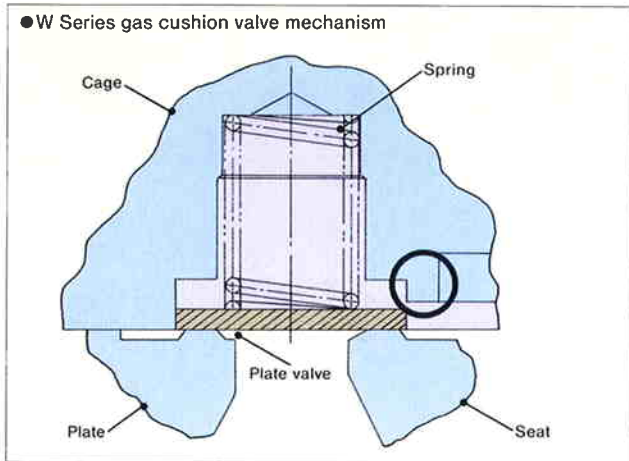
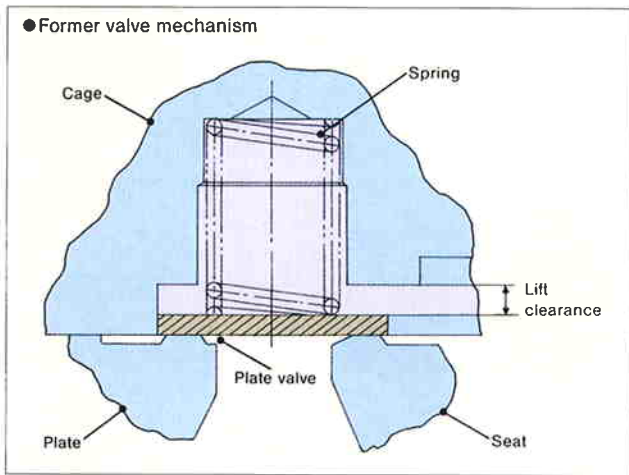


ADVANCING!

MYCOM?

UPGRADED DURABILITY CUTS YOUR UPKEEP COSTS.

One of the major service requirements of a reciprocating compressor is replacement of the plate valve. The design of the plate valve of the W Series Compressor improves durability and ensures a long service life and less maintenance.



ABUNDANT OPTIONS LET YOU CUSTOMIZE W SERIES COMPRESSORS TO DIFFERENT OPERATING CONDITIONS.

A prospective user can choose from among an air-cooled, water-cooled or refrigerant-cooled head cover(s). The user has a choice of a water-cooled or refrigerant-cooled oil cooler, and can specify either an internal, external or combination internal/external oil filter.

Control options include a mechanical or microprocessor-based system. Options are available for the pressure gauge board and control switch arrangement, and the user has a choice of a belt drive or direct drive system.

COMMON PARTS FOR AMMONIA AND HALO-CARBON REFRIGERANT APPLICATIONS SLASH YOUR INVENTORY.

The W Series Compressor uses many parts in common to both ammonia and halocarbon refrigerant applications. This major reduction in the range of parts will appeal to contractors who have had to maintain a large inventory of parts to satisfy the customers using both refrigerants.

POLLUTION-FREE GASKETS

MYCOM considers the future. Pollution-free non-asbestos gaskets are standard. Asbestos gaskets are available if preferred.

N6WA



F6WB



N8WB



SPECIFICATIONS (BARE COMPRESSOR)

Item	Single-stage compressor									Compound compressor					
	2WA	4WA(J)	6WA(J)	8WA(J)	4WB	6WB	8WB	12WB	42WA	62WA	42WB	62WB	12.4WB		
Refrigerant	R717, R22, R502, R12, Propane														
Type	Reciprocating, open type														
No. of cylinders	2	4	6	8	4	6	8	12	L-4/H-2	L-6/H-2	L-4/H-2	L-6/H-2	L-12/H-4		
Bore	3-3/4 (95)			5-1/8 (130)				3-3/4 (95)		5-1/8 (130)					
Stroke	3 (76)			3-15/16 (100)				3 (76)		3-15/16 (100)					
Max. speed	1,100			1,450				1,200		1,450		1,200			
Displacement at max. speed	CFM (m ³ /h)	42 (71)	110 (187)	165 (281)	220 (374)	224 (381)	337 (573)	450 (764)	674 (1,145)	L-110 (187)	L-165 (281)	L-224 (381)	L-337 (573)	L-674 (1,145)	
										H-55 (94)	H-55 (94)	H-112 (191)	H-112 (191)	H-224 (381)	
Driving method*	Belt drive or direct drive														
Capacity control steps	%	100	100, 50	100, 66, 33	100, 75, 50, 25	100, 50	100, 66, 33	100, 75, 50, 25	100, 66, 33	100, 50	100, 66, 33	100, 50	100, 66, 33	100, 66, 33	
Refrigeration oil	ISO VG68 or equivalent														
Oil charge quantity	U.S. gal. (l)	1.32 (5)	3.17 (12)	3.70 (14)	4.49 (17)	5.29 (20)	6.61 (25)	6.87 (26)	13.74 (52)	3.70 (14)	4.49 (17)	6.61 (25)	7.00 (26.5)	14.53 (55)	
Connections	Suction	R717	2" (50A)	2-1/2" (65A)	3" (80A)	3-1/2" (90A)	3-1/2" (90A)	4" (100A)	5" (125A)	L2" (50A)	L2-1/2" (65A)	L3" (80A)	L4" (100A)	L5" (125A)	
		R22, R502	2-1/2" (65A)	3" (80A)	3-1/2" (90A)		4" (100A)	5" (125A)		H1-1/2" (40A)	H1-1/2" (40A)	H2-1/2" (65A)	H2-1/2" (65A)	H3" (80A)	H3" (80A)
	Discharge	R717	2" (50A)	2-1/2" (65A)	3" (80A)	3" (80A)	3-1/2" (90A)	3" (80A)	3-1/2" (90A)	3" (80A) x 2	L2" (50A)	L2" (50A)	L2-1/2" (65A)	L2-1/2" (65A)	L3" (80A) x 2
		R22, R502	2-1/2" (65A)	3" (80A)	3-1/2" (90A)	3-1/2" (90A)	4" (100A)	3-1/2" (90A)	4" (100A)	H1-1/2" (40A)	H1-1/2" (40A)	H2" (50A)	H2" (50A)	H2" (50A) x 2	H2" (50A) x 2
Net weight	lb. (kg)	810 (370)	(A) 1,280 (580) (J) 1,100 (500)	(A) 1,540 (700) (J) 1,230 (560)	(A) 1,800 (820) (J) 1,430 (650)	2,420 (1,100)	3,100 (1,410)	3,410 (1,150)	5,500 (2,500)	1,580 (720)	1,850 (840)	3,170 (1,440)	3,430 (1,560)	6,820 (3,100)	

ITEMS INCLUDED

- Suction shut-off valve 1 pc. (Single-stage), 2 pcs. (Compound)
- Discharge shut-off valve 1 pc. (Single-stage), 2 pcs. (Compound)
- Oil cooler 1 pc.
- Flywheel 1 pc.
- Safety valve 1 pc. (Single-stage), 2 pcs. (Compound)
- Capacity control solenoid valve* 1 pc.**
- * Excludes compressors for chemical plants. ** Excludes Model 2WA.
- Discharge side thermometer 1 pc. (Single-stage), 2 pcs. (Compound)
- Suction side thermometer 1 pc. (Single-stage), 2 pcs. (Compound)
- Service tools 1 set

PRIMARY CHOICES

- Driving method (Belt drive, Direct drive)
- Control panel (Mechanical type, Microprocessor type)
- Head cover (Air-cooled, Water-cooled, DX-cooling)
- Oil cooler (Water-cooled, DX-cooling)
- Oil filter (Cuno-filter, External filter, Both)
- Gasket (Non-asbestos, Asbestos)

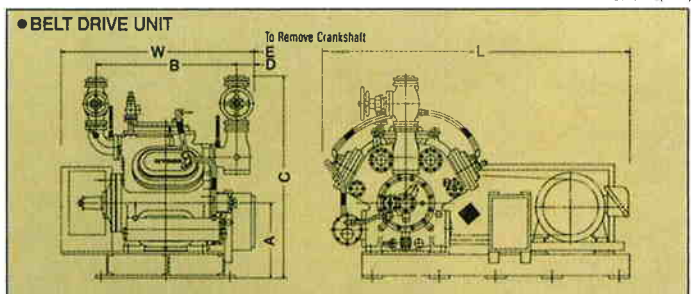
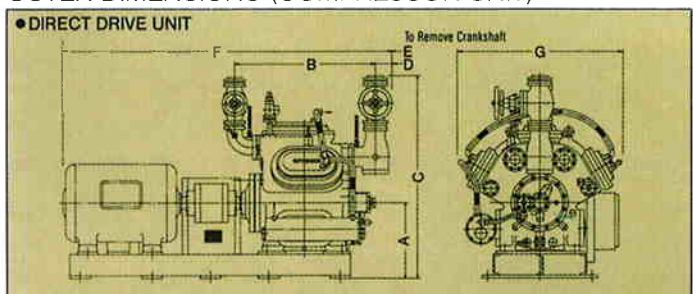
Note: • "L": Low stage, "H": High stage. • Model 12.4WB - Direct drive only.

OPTIONAL ACCESSORIES

- High pressure cut-out switch
- Low pressure cut-out switch
- Oil pressure failure protection switch
- High pressure side pressure gauge
- Low pressure side pressure gauge
- Oil pressure gauge
- Gauge board
- Oil heater with thermo-switch
- Oil separator
- Capacity control solenoid valve

OUTER DIMENSIONS (COMPRESSOR UNIT)

Unit: in. (mm)



Model	Dimensions									Flywheel		Weight less motor lb. (kg)	
	A	B	C	D		E	F	G	L*	W	Pitch dia.		No. of grooves
2WA	12-5/8(321)	-	37-1/2(955)	17(432)	-	21(533)	-	-	58(1,475)	34(865)	13-1/4(336)	C x 4	975(442)
4WA	17-3/4(451)	12-1/16(306)	45-7/8(1,165)	15(381)	11(279)	25(635)	66-1/2(1,680)	38(965)	67(1,705)	42(1,070)	15-7/16(392)	C x 4	2,005(909)
6WA	17-3/4(451)	32-1/16(814)	47-7/8(1,220)	4(102)	4(102)	25(635)	73-3/4(1,875)	41(1,045)	69-1/2(1,765)	43-1/2(1,105)	15-7/16(392)	C x 6	2,280(1,034)
8WA	18-15/16(481)	32-7/16(824)	50-1/16(1,290)	4-1/2(114)	4-1/2(114)	25(635)	78(1,985)	41-1/2(1,055)	71(1,805)	44-1/8(1,125)	15-7/16(392)	C x 8	2,605(1,181)
4WB	20-1/2(521)	15-13/16(402)	55-1/2(1,410)	20(508)	12-1/2(318)	27(686)	82(2,085)	44-1/2(1,130)	81(2,060)	55(1,400)	17-9/16(446)	C x 8	3,430(1,556)
6WB	21-5/16(541)	40-3/8(1,026)	58-5/16(1,485)	5(127)	5(127)	28(711)	92(2,340)	50(1,270)	82-3/4(2,105)	55(1,400)	17-9/16(446)	C x 10	3,980(1,805)
8WB	21-1/4(540)	39-11/16(1,008)	60-13/16(1,545)	6-1/2(165)	5-1/2(140)	30(762)	95(2,415)	48-1/2(1,235)	83-3/4(2,130)	55-1/4(1,405)	17-9/16(446)	C x 10, C x 12*	4,420(2,005)
12WB	B.D.	23-1/4(591)	61-1/2(1,565)	5(127)	5(127)	72(1,829)	122-1/4(3,120)	53-3/16(1,355)	88(2,235)	79(2,010)	-	-	7,740(3,510)
	D.D.	25-1/4(641)	63-1/2(1,613)										7,150(3,243)

Note: • "B.D.": Belt drive. "D.D.": Direct drive.
 • Dimension L given is less motor. Motor junction box may extend beyond frame especially on larger motor sizes.
 • Figure in bracket []: Compressors for Canada only.

• Design and specifications subject to change without notice.

For further information, contact:



MAYEKAWA MFG. CO., LTD (HEAD OFFICE)
 13-1, Botan 2, Koto-ku, Tokyo, 135, Japan
 Tel: (81-3) 3642 8088 Fax: (81-3) 3643 7094

MAYEKAWA AUSTRALIA PTY. LTD
 Unit 2, 44 McCauley Street Matraville, NSW
 Sydney, Australia.
 Tel: (61-2) 9695 7000 Fax: (62-2) 9695 7001

P.T. MYCOM INDONESIA
 Menara Gracia, 6th Flr., J.L. H.R.
 Rasuna Said Kav. C-17 Jakarta 12940, Indonesia
 Tel: (62-21) 522 0881 Fax: (62-21) 522 0880

MAYEKAWA (M) SDN BHD
 No. 17A, Jalan SS26/6, Taman Mayang Jaya,
 47301 Petaling Jaya, Malaysia.
 Tel: (60-3) 7805 1406 Fax: (60-3) 7805 1409

MAYEKAWA AUSTRALIA PTY LTD (NEW ZEALAND BRANCH)
 30 Tui Street Otanuhu Auckland
 P. O. Box 12106, Penrose, Auckland,
 New Zealand
 Tel: (64-9) 276 2305 Fax: (64-9) 276 2306

MYCOM PHILIPPINES CORPORATION
 3rd Floor, MRDC Building, 85 Sen. Gil Puyat Avenue,
 Patanan, Makati City, Philippines.
 Tel: (63-2) 844 0767 Fax: (63-2) 844 0762

MYCOM KOREA CO., LTD
 Palyong Dong 24-20, Changwon Kyungsangnam-D0
 Republic of Korea
 Tel: (82-55) 294 8678 Fax: (82-55) 294 7678

MYCOM INDUSTRY CO., LTD
 No. 836, An Chao Rd, Yen Chao Hsiang,
 Kaohsiung Hsien, Taiwan.
 Tel: (886) 7-616-8073 Fax: (886) 7-616-8063

MYCOM SINGAPORE PTE LTD
 6 Tagore Lane, Singapore 787470.
 Tel: (65) 451 1565 Fax: (65) 451 4932

MYCOM (THAILAND) CO., LTD
 947 Moo 12, 12th Flr., Thosapol Land 3 Bldg.,
 Bangna-Trad Rd, Prakanong, Bangkok 10260, Thailand
 Tel: (66-2) 361 8171 Fax: (66-2) 361 8170

MAYEKAWA MFG CO. LTD
 Ho Chi Minh City Representative Office
 10th Flr., Osic Building, No. 8, Nguyen Hue Blvd, District 1,
 Ho Chi Minh City, Vietnam
 Tel: (84-8) 825 6917 Fax: (84-8) 825 6919

PERFORMANCE

Refrigerant	Model	*Displacement at 1,200 r.p.m. CFM	*Refrigeration Capacity at 95°F Condensing Temperature						Brake Horsepower at 95°F Condensing Temperature					
			Suction Temperature °F						Suction Temperature °F					
			-20	-10	0	10	20	30	-20	-10	0	10	20	30
			*U.S. TR						BHP					
R717	N2WA*	41.8	3.9	5.6	7.7	10.3	13.4	17.1	9.8	11.3	12.7	13.9	14.9	15.5
	N4WA	91.2	8.4	12.2	16.8	22.5	29.2	37.2	21.4	24.7	27.7	30.4	32.5	33.7
	N6WA	136.8	12.6	18.3	25.2	33.7	43.8	55.8	32.1	37.0	41.6	45.6	48.7	50.6
	N8WA	182.4	16.9	24.4	33.7	44.9	58.4	74.4	42.9	49.4	55.5	60.8	65.0	67.5
	N4WB	224.4	20.8	30.1	41.5	55.3	72.0	91.7	52.8	60.8	68.4	74.9	80.1	83.1
	N6WB	337.2	31.2	45.1	62.2	83.0	108.0	137.6	79.2	91.3	102.6	112.4	120.1	124.7
	N8WB	450.0	41.6	60.1	82.9	110.7	143.8	183.4	105.6	121.7	136.7	149.9	160.1	166.3
	N12WB	674.4	62.3	90.2	124.4	166.0	215.9	275.1	158.4	182.5	205.1	224.8	240.2	249.4
R22	F2WA2*	41.8	4.4	6.2	8.4	10.9	13.9	17.4	10.1	11.7	13.1	14.3	15.2	15.8
	F4WA2	91.2	9.7	13.6	18.2	23.8	30.3	38.0	22.3	25.7	28.8	31.4	33.5	34.9
	F6WA2	136.8	14.5	20.3	27.3	35.7	45.5	57.1	33.4	38.5	43.1	47.2	50.3	52.4
	F8WA2	182.4	19.4	27.1	36.4	47.6	60.7	76.1	44.5	51.3	57.5	62.9	67.1	69.9
	F4WB2	224.4	25.2	34.6	45.9	59.3	75.2	93.9	53.0	62.5	71.3	79.2	85.9	90.9
	F6WB2	337.2	37.8	51.9	68.8	89.0	112.8	140.8	79.5	93.8	107.0	118.8	128.8	136.4
	F8WB2	450.0	50.5	69.2	91.8	118.7	150.5	187.7	106.0	125.0	142.7	158.4	171.7	181.9
	F12WB2	674.4	75.7	103.8	137.7	178.0	225.7	281.6	159.0	187.5	214.0	237.7	257.6	272.8
R502	F2WA5*	41.8	4.5	6.3	8.5	11.1	14.2	17.8	10.9	12.5	14.0	15.2	16.2	16.7
	F4WA5	91.2	9.9	13.8	18.6	24.2	30.9	38.8	24.0	27.6	30.8	33.6	35.7	37.0
	F6WA5	136.8	14.9	20.8	27.9	36.3	46.4	58.1	36.0	41.4	46.2	50.3	53.5	55.5
	F8WA5	182.4	19.8	27.7	37.2	48.4	61.8	77.5	48.0	55.2	61.6	67.1	71.3	74.0
	F4WB5	224.4	25.8	35.3	46.7	60.4	76.6	95.6	58.6	68.5	77.7	85.8	92.6	97.6
	F6WB5	337.2	38.7	52.9	70.1	90.6	114.9	143.4	87.9	102.8	116.6	128.7	138.9	146.4
	F8WB5	450.0	51.5	70.6	93.5	120.8	153.2	191.2	117.2	137.1	155.4	171.7	185.1	195.2
	F12WB5	674.4	77.3	105.9	140.2	181.3	229.8	286.7	175.8	205.6	233.1	257.5	277.7	292.8

- Notes:
- Refrigeration capacity ratings are based on 15°F liquid subcooling and 10°F suction superheat for R717 and R22. Suction superheat for R502 is 30°F.
 - Model 2WA ratings and displacement are based on 1,100 r.p.m.
 - One (1) U.S. TR = 12,000 BTU/h (3,024 Kcal/h)
 - For compound compressor capacities, contact the nearest MYCOM office.
 - For information on other refrigerants, speed and operating conditions, contact the nearest MYCOM office. MYCOM will provide engineering data for your specific requirements.

Refrigerant	Model	*Displacement m ³ /h	*Refrigeration Capacity at 35°C Condensing Temperature						Brake Kilowatt at 35°C Condensing Temperature					
			Suction Temperature (°C)						Suction Temperature (°C)					
			-25	-20	-15	-10	-5	0	-25	-20	-15	-10	-5	0
			*Kilowatt						BKW					
R717	N2WA	71.0	17.3	23.4	30.7	39.3	49.5	61.3	8.1	9.1	10.0	10.7	11.3	11.6
	N4WA	187.2	45.4	61.6	80.8	103.7	130.4	161.6	21.4	23.9	26.2	28.3	29.7	30.6
	N6WA	280.7	68.3	92.3	121.3	155.5	195.6	242.3	32.0	35.9	39.4	42.4	44.6	45.8
	N8WA	374.2	91.0	123.1	161.7	207.4	260.9	323.1	42.8	47.8	52.6	56.4	59.4	61.0
	N4WB	381.0	92.8	125.6	164.9	211.4	265.9	329.4	43.6	48.8	53.6	57.6	60.6	62.3
	N6WB	572.6	139.1	188.4	247.3	317.1	398.9	494.1	65.4	73.2	80.4	86.4	90.9	93.4
	N8WB	764.1	185.5	251.2	329.7	422.7	531.9	658.7	87.2	97.6	107.1	115.2	121.2	124.5
	N12WB	954.3	231.9	313.9	412.2	528.4	664.8	823.4	109.0	122.1	133.9	144.0	151.5	155.7
R22	F2WA2	71.0	19.3	25.4	32.6	41.1	50.9	62.1	8.4	9.3	10.2	10.9	11.5	11.9
	F4WA2	187.2	50.7	67.1	86.0	108.3	134.1	163.9	22.2	24.9	27.2	29.1	30.7	31.7
	F6WA2	280.7	76.1	100.5	129.1	162.6	201.2	245.8	33.4	37.2	40.7	43.7	46.0	47.5
	F8WA2	374.2	101.6	134.0	172.2	216.7	268.2	327.7	44.5	49.7	54.4	58.4	61.4	63.3
	F4WB2	381.0	107.8	140.3	178.5	223.1	274.7	334.2	44.6	50.7	56.3	61.2	65.3	68.4
	F6WB2	572.6	161.7	210.5	267.8	334.6	412.1	501.2	66.8	76.0	84.4	91.8	98.0	102.6
	F8WB2	764.1	215.6	280.6	357.1	446.2	549.4	668.3	89.1	101.3	112.5	122.4	130.7	136.8
	F12WB2	954.3	269.4	350.8	446.3	557.8	686.8	835.4	111.4	126.7	140.7	153.0	163.3	171.1
R502	F2WA5	71.0	19.5	25.7	33.1	41.6	51.6	63.1	9.0	10.0	10.9	11.7	12.2	12.5
	F4WA5	187.2	51.5	67.9	87.1	109.7	136.1	166.3	23.9	26.7	29.1	31.1	32.6	33.5
	F6WA5	280.7	77.2	101.7	130.7	164.7	204.0	249.4	35.9	40.0	43.6	46.6	48.9	50.3
	F8WA5	374.2	103.0	135.7	174.4	219.6	272.0	332.7	47.8	53.3	58.1	62.2	65.1	66.9
	F4WB5	381.0	109.1	142.0	180.7	225.9	278.5	339.1	49.0	55.3	61.1	66.2	70.3	73.4
	F6WB5	572.6	163.6	213.0	271.0	338.9	417.7	508.7	73.4	83.0	91.7	99.3	105.5	110.1
	F8WB5	764.1	218.2	284.0	361.4	451.9	557.0	678.3	97.9	110.6	122.2	132.4	140.7	146.8
	F12WB5	954.3	272.8	354.9	451.8	564.8	696.3	847.8	122.4	138.3	152.8	165.4	175.8	183.5

- Notes:
- Refrigeration capacity ratings are based on 5°C liquid subcooling and 10°C suction superheat for R717 and R22. Suction superheat for R502 is 15°C.
 - Model 2WA ratings and displacement are based on 1,100 r.p.m., Model 4WA, 6WA, 8WA on 1,450 r.p.m., Model 4WB, 6WB, 8WB on 1,200 r.p.m. and Model 12WB on 1,000 r.p.m.
 - One (1) kilowatt = 860 Kcal/h.