
MYCOM

PRODUCT DESCRIPTIONS

Compressors & units



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1. MYCOM compressor series

The range of today's MYCOM compressors extends from 40 m³/hr up to 9800 m³/hr theoretical displacement volume.

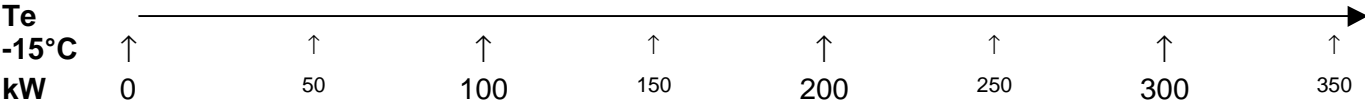
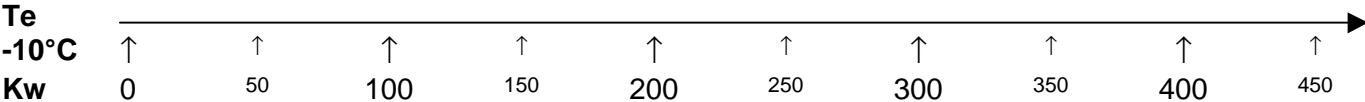
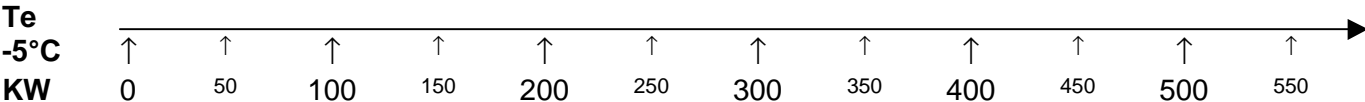
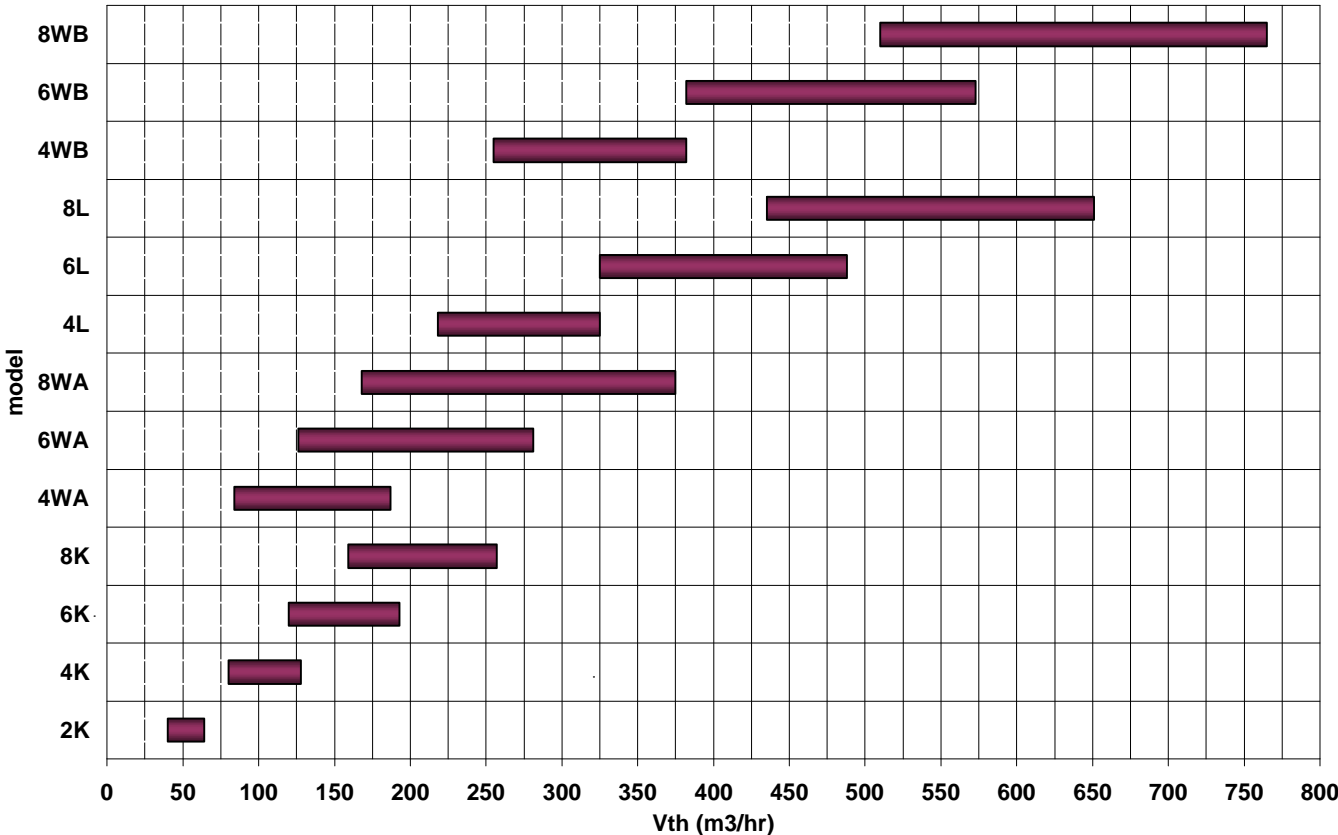
MYCOM manufactures both reciprocating & screw compressors. MYCOM compressors are build to operate in heavy industrial applications and are suitable for all refrigerants.

The range of **reciprocating compressors** consists of the following series:

- WA series
- WB series
- K series
- L series

The WA & WB series have also 2-stage (compound) compressor models.

The range for the **reciprocating compressors** is shown below:



Refrigerant : NH3
 Tc : + 35°C

Note:

- For the K & L type series the max Vth is considered at 1450 rpm although the compressors maximum speed is 1750 rpm (for 60 Hz countries).

Capacity table for single stage reciprocating compressors

Te		Refrigerant : Ammonia				Condensing temp. : 35°C				Speed : 1450 RPM (WB 1200 RPM)			
		-5 °C		-10 °C		-15 °C		-20 °C					
Model	Vth max m3/h	RT kW	BKW kW	RT kW	BKW kW	RT kW	BKW kW	RT kW	BKW kW				
2K	80	13	11	35	10	26	9	18	8				
4K	159	90	20	69	19	51	17	37	15				
6K	239	135	30	104	28	77	25	55	22				
8K	319	180	40	138	37	103	33	74	29				
4WA	187	134	30	106	28	83	26	63	24				
6WA	281	200	45	159	42	124	39	95	36				
8WA	375	267	59	212	57	166	53	126	48				
4WB	382	273	61	217	58	169	54	129	49				
6WB	573	409	91	325	86	253	80	193	73				
8WB	765	545	121	433	115	338	107	257	98				
4L	393	233	52	179	48	136	44	101	39				
6L	589	344	77	265	71	201	64	150	57				
8L	785	452	101	349	94	265	84	197	74				

Capacity table for two stage (compound) reciprocating compressors

Te		Refrigerant : Ammonia				Condensing temp. : 35°C				Speed : 1450 RPM (WB 1200 RPM)			
		-20 °C		-25 °C		-30 °C		-35 °C		-40 °C		-45 °C	
Model	Vth (L) max m3/h	RT kW	BKW kW	RT kW	BKW kW	RT kW	BKW kW	RT kW	BKW kW	RT kW	BKW kW	RT kW	BKW kW
42WA	187	88	31	70	28	55	26	42	24	32	21	24	19
62WA	281	115	40	92	37	72	34	56	31	43	27	32	24
42WB	382	179	62	142	58	112	53	86	48	66	43	49	38
62WB	573	234	82	187	76	147	69	114	63	88	56	66	50

For detailed data on compressor performance consult the compressor selection program version MYCOMW 3.31Meep.

1.1. Reciprocating compressors

1.1.1. WA Reciprocating compressors

1.1.1.1. Single stage WA Reciprocating compressors

WA SERIES COMPRESSORS

SPECIFICATIONS

COMPRESSOR		4WA	6WA	8WA
REFRIGERANTS		HCFC / HFC & NH3		
BORING x STROKE		95 x 76		
HEAD COVER COOLING		WATER (-W.) or AIR (-A.)		
OIL COOLING		WATER (-.W) or DX (-.D)		
DRIVE METHOD		DIRECT DRIVE or V-BELT DRIVE		
CAPACITY CONTROL		HYDRAULIC PRESSURE SWITCHED BY SOLENOID VALVES ENERGIZED = UNLOAD		
CAPACITY LOADING STEPS		50%	33%	25%
		100%	66%	50%
			100%	75%
				100%
CONNECTIONS (mm)	SUCTION	50A	65A	80A
	DISCHARGE	50A	65A	65A
OIL CHARGE (l)		12	14	17
NET WEIGHT (kg)		580	700	820

DESIGN PARAMETERS

	MIN	MAX
COMPRESSOR SPEED	650 RPM (*)	1450 RPM

PRESSURES

DISCHARGE PRESSURE (Pd)		20 bar(a)
SUCTION PRESSURE (Ps)	PLAIN B.	0,3 bar(a)
	BALL BEAR.	1 bar(a)
PRESSURE DIFFERENCE PD-PS		15 bar
OIL SUPPLY PRESSURE (Poil)		Ps + 4 bar
SET PRESSURE Ps + 2 bar		Ps + 1 bar

TEMPERATURES

EVAPORATING TEMPERATURE (Te)		25°C
SUCTION SUPER HEAT (Sh)	NH3.	15°C
	CFC, HCFC	30°C
DISCHARGE TEMPERATURE (Td)	NH3.	150°C
	CFC, HCFC	120°C
OIL SUPPLY TEMPERATURE (Toil)		30°C
		50°C

* for RPM's below 800 rpm a slow speed oilpump needs to be mounted

➤ **Included with the bare single stage WA Reciprocating compressors**

- watercooled headcovers and crankcase jacket on –W. models, aircooled headcovers –A. models
- watercooled oil cooler (stainless steel type) on –.W models, DX oilcooler on –.D models
- ball thrust bearing
- discharge and suction stop valve with counter flanges
- oil pressure gauge 0-15 bar
- external safety valve (19.5 bar)
- thermometers for discharge and suction side
- unloader solenoid valves for for all capacity steps (220V)
- automatic pressure equalizing valve
- 200W oilheater with thermostat
- oil drain and charge valve 3/8"
- purge valve 3/8"
- tool kit (special tools only)

1.1.1.2. 2 - stage WA Reciprocating compressors (compound)

WA SERIES 2 - stage COMPRESSORS

SPECIFICATIONS

COMPRESSOR		4.2WA	6.2WA
REFRIGERANTS		HCFC / HFC & NH3	
BORING x STROKE		95 x 76	
HEAD COVER COOLING		WATER (-W.) or AIR (-A.)	
OIL COOLING		WATER (-.W) or DX (-.D)	
DRIVE METHOD		DIRECT DRIVE or V-BELT DRIVE	
CAPACITY CONTROL		HYDRAULIC PRESSURE SWITCHED BY SOLENOID VALVES ENERGIZED = UNLOAD, HIGH STAGE ALWAYS LOADED	
CAPACITY LOADING STEPS		50%	33%
		100%	66%
			100%
CONNECTIONS (mm)	SUCTION	50A	65A
	DISCHARGE	40A	50A
CONNECTIONS (mm)	SUCTION	50A	40A
	DISCHARGE	40A	40A
OIL CHARGE (l)		14	17
NET WEIGHT (kg)		700	820

DESIGN PARAMETERS

	MIN	MAX
COMPRESSOR SPEED	650 RPM (*)	1450 RPM

PRESSURES

DISCHARGE PRESSURE (Pd)		20 bar(a)
SUCTION PRESSURE (Ps)	0,3 bar(a)	5 bar(a)
INTERMEDIATE PRESSURE Pm		7 bar(a)
PRESSURE DIFFERENCE PD-PS		15,5 bar
OIL SUPPLY PRESSURE (Poil)	Ps + 1 bar	Ps + 4 bar
SET PRESSURE Ps + 2 bar		

TEMPERATURES

EVAPORATING TEMPERATURE (Te)		25°C
SUCTION SUPER HEAT (Sh)	NH3.	15°C
	CFC, HCFC	30°C
DISCHARGE TEMPERATURE (Td)	NH3.	150°C
	CFC, HCFC	120°C
OIL SUPPLY TEMPERATURE (Toil)	30°C	50°C

* for RPM's below 800 rpm a slow speed oilpump needs to be mounted

➤ **Included with the bare 2-stage WA Reciprocating compressors**

- watercooled headcovers and crankcase jacket on –W. models, aircooled headcovers –A. models
- watercooled oil cooler (stainless steel type) on –.W models, DX oilcooler on –.D models
- plain thrust bearing
- discharge and suction stop valves with counter flanges on low & high stage
- oil pressure gauge 0-15 bar
- external safety valve high stage (19.5 bar)
- external safety valve low stage (9.5 bar)
- thermometers for discharge and suction side on low & high stage
- unloader solenoid valves for for all capacity steps (220V)
- automatic pressure equalizing valve
- 200W oilheater with thermostat
- oil drain and charge valve 3/8"
- purge valve 3/8"
- tool kit (special tools only)

1.1.2. WB Reciprocating compressors

1.1.2.1. Single stage WB Reciprocating compressors

WB SERIES COMPRESSORS

SPECIFICATIONS

COMPRESSOR		4WB	6WB	8WB
REFRIGERANTS		HCFC / HFC & NH3		
BORING x STROKE		130 x 100		
HEAD COVER COOLING		WATER (-W.) or AIR (-A.)		
OIL COOLING		WATER (-.W) or DX (-.D)		
DRIVE METHOD		DIRECT DRIVE or V-BELT DRIVE		
CAPACITY CONTROL		HYDRAULIC PRESSURE SWITCHED BY SOLENOID VALVES ENERGIZED = UNLOAD		
CAPACITY LOADING STEPS		0%	33%	25%
		50%	66%	50%
		100%	100%	75%
				100%
CONNECTIONS (mm)	SUCTION	80A	100A	125A
	DISCHARGE	80A	80A	100A
OIL CHARGE (l)		20	25	26
NET WEIGHT (kg)		1100	1410	1550

DESIGN PARAMETERS

	MIN	MAX
COMPRESSOR SPEED	650 RPM (*)	1200 RPM

PRESSURES

DISCHARGE PRESSURE (Pd)		20 bar(a)
SUCTION PRESSURE (Ps)	SLEEVE	0,3 bar(a)
	BALL BEAR.	1 bar(a)
PRESSURE DIFFERENCE PD-PS		15 bar
INTERMEDIATE PRESSURE Pm		7 bar(a)
OIL SUPPLY PRESSURE (Poil)	Ps + 1 bar	Ps + 4 bar
SET PRESSURE Ps + 2 bar		

TEMPERATURES

EVAPORATING TEMPERATURE (Te)		25°C
SUCTION SUPER HEAT (Sh)	NH3.	15°C
	CFC, HCFC	30°C
DISCHARGE TEMPERATURE (Td)	NH3.	150°C
	CFC, HCFC	120°C
OIL SUPPLY TEMPERATURE (Toil)	30°C	50°C

* for RPM's below 800 rpm a slow speed oilpump needs to be mounted

➤ **Included with the bare Single stage WB Reciprocating compressors**

- watercooled headcovers and crankcase jacket on –W. models, aircooled headcovers –A. models
- watercooled oil cooler (stainless steel type) on –.W models, DX oilcooler on –.D models
- ball thrust bearing
- discharge and suction stop valve with counter flanges
- oil pressure gauge 0-15 bar
- external safety valve (19.5 bar)
- thermometers for discharge and suction side
- unloader solenoid valves for for all capacity steps (220V)
- automatic pressure equalizing valve
- 200W oilheater with thermostat
- oil drain and charge valve 3/8"
- purge valve 3/8"
- tool kit (special tools only)

1.1.2.2. 2 - stage WB Reciprocating compressors (compound)

WB SERIES 2 - stage COMPRESSORS

SPECIFICATIONS

COMPRESSOR		4.2WB	6.2WB
REFRIGERANTS		HCFC / HFC & NH3	
BORING x STROKE		130 x 100	
HEAD COVER COOLING		WATER (-W.) or AIR (-A.)	
OIL COOLING		WATER (-.W) or DX (-.D)	
DRIVE METHOD		DIRECT DRIVE or V-BELT DRIVE	
CAPACITY CONTROL		HYDRAULIC PRESSURE SWITCHED BY SOLENOID VALVES ENERGIZED = UNLOAD, HIGH STAGE ALWAYS LOADED	
CAPACITY LOADING STEPS		50%	33%
		100%	66%
			100%
CONNECTIONS (mm)	SUCTION	80A	100A
	DISCHARGE	65A	65A
CONNECTIONS (mm)	SUCTION	65A	65A
	DISCHARGE	50A	50A
OIL CHARGE (l)		25	27
NET WEIGHT (kg)		1440	1560

DESIGN PARAMETERS

	MIN	MAX
COMPRESSOR SPEED	650 RPM (*)	1200 RPM

PRESSURES

DISCHARGE PRESSURE (Pd)		20 bar(a)
SUCTION PRESSURE (Ps)	0,3 bar(a)	5 bar(a)
PRESSURE DIFFERENCE PD-PS		15,5 bar
OIL SUPPLY PRESSURE (Poil)	Ps + 1 bar	Ps + 4 bar
SET PRESSURE Ps + 2 bar		

TEMPERATURES

EVAPORATING TEMPERATURE (Te)		25°C
SUCTION SUPER HEAT (Sh)	NH3.	15°C
	CFC, HCFC	30°C
DISCHARGE TEMPERATURE (Td)	NH3.	150°C
	CFC, HCFC	120°C
OIL SUPPLY TEMPERATURE (Toil)	30°C	50°C

* for RPM's below 800 rpm a slow speed oilpump needs to be mounted

➤ **Included with the bare 2-stage WB Reciprocating compressors**

- watercooled headcovers and crankcase jacket on –W. models, aircooled headcovers –A. models
- watercooled oil cooler (stainless steel type) on –.W models, DX oilcooler on –.D models
- plain thrust bearing
- discharge and suction stop valves with counter flanges on low & high stage
- oil pressure gauge 0-15 bar
- external safety valve high stage (19.5 bar)
- external safety valve low stage (9.5 bar)
- thermometers for discharge and suction side on low & high stage
- unloader solenoid valves for for all capacity steps (220V)
- automatic pressure equalizing valve
- 200W oilheater with thermostat
- oil drain and charge valve 3/8"
- purge valve 3/8"
- tool kit (special tools only)

1.1.3. K Reciprocating compressors

K SERIES COMPRESSORS

SPECIFICATIONS

COMPRESSOR		2K	4K	6K	8K
REFRIGERANTS		HCFC / HFC & NH3			
BORING x STROKE		85 x 65			
HEAD COVER COOLING		WATER (-W.) or AIR (-A.)			
OIL COOLING		WATER (-.W) or DX (-.D) or NONE (-.N)			
DRIVE METHOD		DIRECT DRIVE or V-BELT DRIVE			
CAPACITY CONTROL		HYDRAULIC PRESSURE SWITCHED BY SOLENOID VALVES ENERGIZED = LOAD			
CAPACITY LOADING STEPS		50%	50%	33%	25%
		100%	100%	66%	50%
				100%	75%
					100%
CONNECTIONS (mm)	SUCTION	32A	50A	65A	80A
	DISCHARGE	25A	40A	50A	65A
OIL CHARGE (l)		8	9	9	10
NET WEIGHT (kg)		180	250	280	300

DESIGN PARAMETERS

	MIN	MAX
COMPRESSOR SPEED	900 RPM	1800 RPM

PRESSURES

DISCHARGE PRESSURE (Pd)	NH3.		25 bar(a)
	CFC, HCFC		24 bar(a)
SUCTION PRESSURE (Ps)		0,3 bar(a)	7,8 bar(a)
PRESSURE DIFFERENCE PD-PS			20 bar
OIL SUPPLY PRESSURE (Poil)		Ps + 1 bar	Ps + 3 bar
SET PRESSURE Ps + 2 bar			

TEMPERATURES

EVAPORATING TEMPERATURE (Te)		14°C
SUCTION SUPER HEAT (Sh)	NH3.	15°C
	CFC, HCFC	30°C
DISCHARGE TEMPERATURE (Td)	NH3.	140°C
	CFC, HCFC	135°C
OIL SUPPLY TEMPERATURE (Toil)	30°C	70°C

(*) The F6K has a compressor bank where 1 cylinder can be unloaded (usually 2); the F6K can thus be regulated to 16%, 33%, 50%, 66%, 83% & 100%.

➤ **Included with the bare Single stage K Reciprocating compressors**

- watercooled headcovers on –W. models, aircooled headcovers on –A. models
- watercooled oil cooler (stainless steel type) on –.W models, DX oilcooler on –.D models, no oilcooler on –.N models.
- plain thrust bearing
- discharge and suction stop valve with counterflanges and with seal cap
- built-in internal relief valve
- capacity control solenoid valve
(1 on F2K, 2 on F4K, 3 on F6K and F8K, 1 on N2K, 1 on N4K, 2 on N6K, 3 on N8K)
- 200W oilheater without thermostat
- built-in suction strainer
- built-in oil strainer
- oil sight glass
- oil charge and drain valve 3/8"
- gas purge valve
- oil pressure regulating valve

1.1.4. L Reciprocating compressors

L SERIES COMPRESSORS

SPECIFICATIONS

COMPRESSOR		4L	6L	8L
REFRIGERANTS		HCFC / HFC & NH3		
BORING x STROKE		115 x 90		
HEAD COVER COOLING		WATER (-W.) or AIR (-A.)		
OIL COOLING		WATER (-.W) or DX (-.D)		
DRIVE METHOD		DIRECT DRIVE or V-BELT DRIVE		
CAPACITY CONTROL		HYDRAULIC PRESSURE SWITCHED BY SOLENOID VALVES ENERGIZED = LOAD		
CAPACITY LOADING STEPS		50%	33%	25%
		100%	66%	50%
			100%	75%
				100%
CONNECTIONS (mm)	SUCTION	80A	100A	100A
	DISCHARGE	65A	80A	100A
OIL CHARGE (l)		25	25	25
NET WEIGHT (kg)		570	675	785

DESIGN PARAMETERS

	MIN	MAX
COMPRESSOR SPEED	970 RPM	1750 RPM

PRESSURES

DISCHARGE PRESSURE (Pd)		21 bar(a)
SUCTION PRESSURE (Ps)		7 bar(a)
PRESSURE DIFFERENCE PD-PS		15 bar
OIL SUPPLY PRESSURE (Poil)	Ps + 1 bar	Ps + 4 bar
SET PRESSURE Ps + 2 bar		

TEMPERATURES

EVAPORATING TEMPERATURE (Te)		-30°C	13°C
SUCTION SUPER HEAT (Sh)	NH3.		15°C
	CFC, HCFC		30°C
DISCHARGE TEMPERATURE (Td)	NH3.		140°C
	CFC, HCFC		135°C
OIL SUPPLY TEMPERATURE (Toil)		30°C	50°C

➤ **Included with the bare Single stage L Reciprocating compressors**

- watercooled headcovers on –W. models, aircooled headcovers on –A. models
- watercooled oil cooler (stainless steel type) on –.W models, DX oilcooler on –.D models
- plain thrust bearing
- discharge and suction stop valve with counter flanges
- internal relief valve (2 pcs on 6L & 8L)
- thermometers for discharge and suction side
- unloader solenoid valves for for all capacity steps (220V)
- automatic pressure equalizing valve
- 200W oilheater with thermostat
- oil drain and charge valve 3/8"
- purge valve 3/8"

1.1.5. Dimensions

Bare Reciprocating compressors

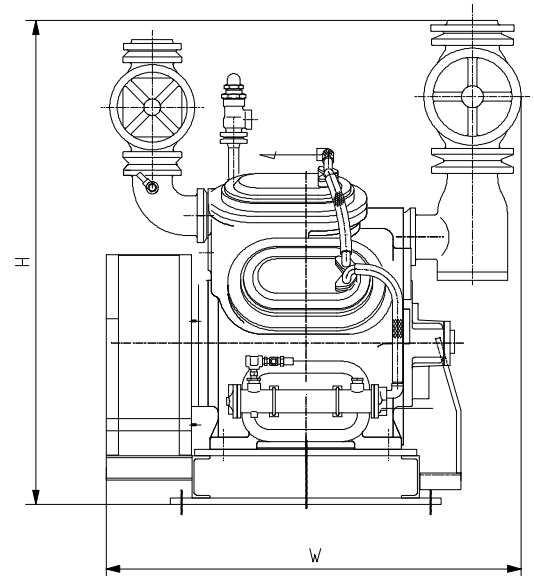
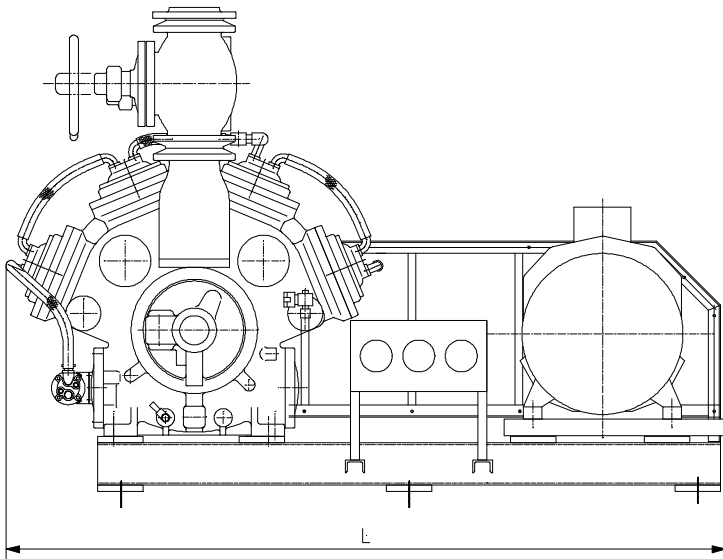
Model	Nett dimensions				Transport dimensions (crate)				Oilcharge (l)
	L (mm)	W (mm)	H (mm)	Weight (kg)	L (mm)	W (mm)	H (mm)	Weight (kg)	
N4WA-WW	860	830	965	580	1040	1100	930	600	12
N6WA-WW	1110	1050	1025	700	1160	1210	1030	740	14
N8WA-WW	1100	1080	1100	820	1200	1240	1080	860	17
N42WA-WW	1020	1030	1010	720	1160	1210	1130	760	14
N62WA-WW	1100	1100	1185	840	1200	1240	1130	880	17
N4WB-WW	1120	990	1180	1100	1260	1280	1090	1160	20
N6WB-WW	1360	1200	1320	1410	1440	1420	1230	1460	25
N8WB-WW	1410	1260	1420	1550	1550	1460	1230	1610	26
N42WB-WW	1320	1160	1155	1440	1450	1370	1250	1500	25
N62WB-WW	1340	1230	1300	1560	1500	1390	1250	1620	27
N2K-WW	700	510	650	180	880	730	780	200	8
N4K-WW	720	650	590	260	880	780	780	290	9
N6K-WW	725	740	625	300	880	810	800	330	9
N8K-WW	765	770	670	355	900	840	830	390	10
N4L-WW	875	900	870	565	1000	1050	970	595	25
N6L-WW	1100	1010	885	675	1230	1160	985	710	25
N8L-WW	1160	1070	920	785	1290	1220	1020	820	25

Note: with WA & WB series the stopvalves are not mounted when shipped in the crate.

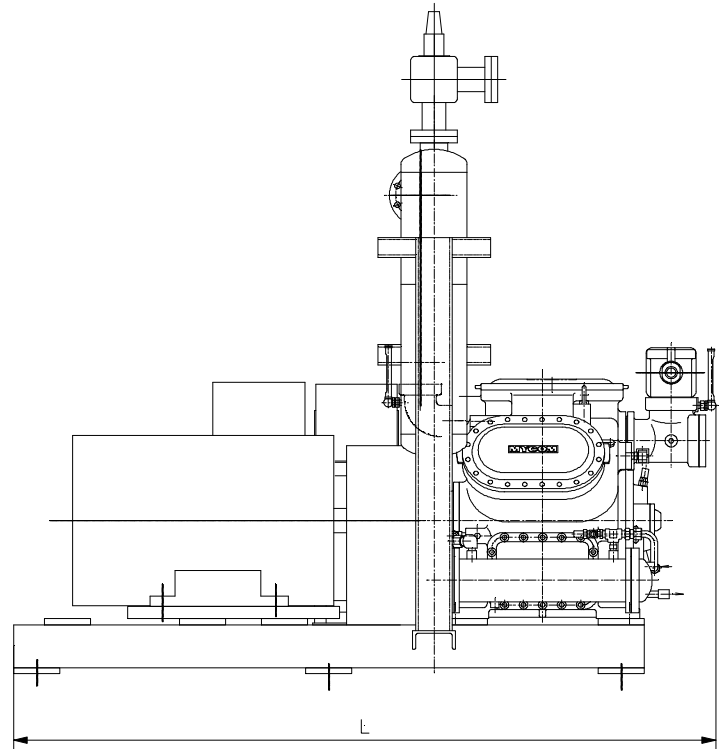
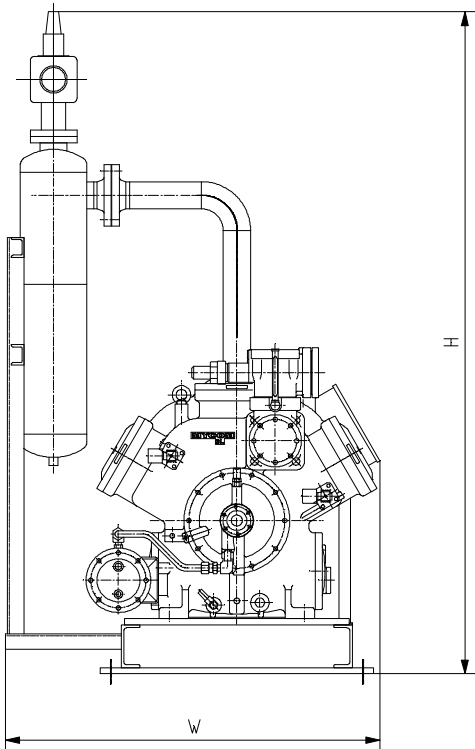
2. MYCOM Compressor units

2.1. Reciprocating compressor units

2.1.1. Dimensions



Belt drive units	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Oilcharge (l)
N4WA-WW	1870	895	1125	970	12
N6WA-WW	1945	1100	1185	1150	14
N8WA-WW	1960	1100	1260	1350	17
N42WA-WW	2000	1100	1260	1080	14
N62WA-WW	2000	1100	1260	1290	17
N4WB-WW	2245	1160	1380	1700	20
N6WB-WW	2320	1325	1450	2130	25
N8WB-WW	2350	1345	1515	2350	26
N42WB-WW	2400	1345	1515	1920	25
N62WB-WW	2400	1345	1515	2350	27
N4K-WW	1610	820	810	750	9
N6K-WW	1610	820	810	830	9
N8K-WW	1610	820	810	960	10
N4L-WW	1800	1100	1750	1250	25
N6L-WW	2200	1200	1800	1420	25
N8L-WW	2500	1250	2060	1700	25



Direct drive units	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Oilcharge (l)
N4WA-WW	1810	900	1125	990	12
N6WA-WW	1950	1050	1185	1170	14
N8WA-WW	1950	1080	1260	1370	17
N42WA-WW	1950	1100	1260	1100	14
N62WA-WW	1950	1220	1260	1310	17
N4WB-WW	2225	1050	1380	1720	20
N6WB-WW	2360	1200	1450	2150	25
N8WB-WW	2400	1260	1800	2370	26
N42WB-WW	2400	1250	1500	1940	25
N62WB-WW	2500	1300	1850	2370	27
N2K-WW	1580	650	810	440	8
N4K-WW	1580	650	810	770	9
N6K-WW	1580	740	810	850	9
N8K-WW	1580	770	810	980	10
N4L-WW	2100	1220	1600	1270	25
N6L-WW	2300	1250	1800	1440	25
N8L-WW	2350	1400	2000	1720	25

Notes:

- Oilseparators & intercoolers are not included in above data
- The weight includes a typical size IP23 drive motor.
- Heights are without transport profiles. Transport arrangements should be made so that sufficient space is left for transport profiles which allow forklift handling.

Data can change depending on execution of the unit.

Above data is approximative.