

# PolaPak

Outdoor Packaged Unit

PPP Ver1.0



# Polapak Outdoor Packaged Unit

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Polapak Outdoor Package Unit uses BITZER reciprocating compressor and Eden condenser which offers assurance on quality, performance and reliability. It is highly adaptable to various climate and external environment conditions. Polapak Outdoor Package Unit can be used in hotels, food processing facilities, convenience stores, restaurants and other commercial-related refrigeration industries.

## Features

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- Designed for very quiet operation in compliance with most countries' noise regulation
- Compact design and easy to install while reduce operating and maintenance costs
- Generously sized condenser coils with additional fin corrosion protection for coastal zone installations
- Powder coated enclosures for corrosion protection and improve durability
- Automatic condenser fan speed regulation to meet different outdoor ambient temperatures for energy savings
- Condenser can be remotely installed due to site limitation
- Wide application temperature range  
Medium temperature range from +5°C to -25°C  
Low temperature range from -15°C to -45°C
- All units are factory tested for braze joint leaks, wiring connections, electrical continuity and start-up performance

## Optionals

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- BITZER VARIPACK
  - a) Direct evaporating pressure regulation
  - b) Condenser fan regulation by 0 –10 V output signal
  - c) Control of another fixed speed compressor (FSCS)
  - d) BEST (BITZER Electronics Service Tools) to communicate with VARIPACK
- Start Unloader
- Check Valve pre-piped to the discharge line
- Solenoid Valve fitted onto the liquid line
- Suction Strainer
- EC Fans for Condensers
- Stainless Steel Casing
- Epoxy Coated or Copper Condenser Fin
- Head Cooling Fans
- CIC

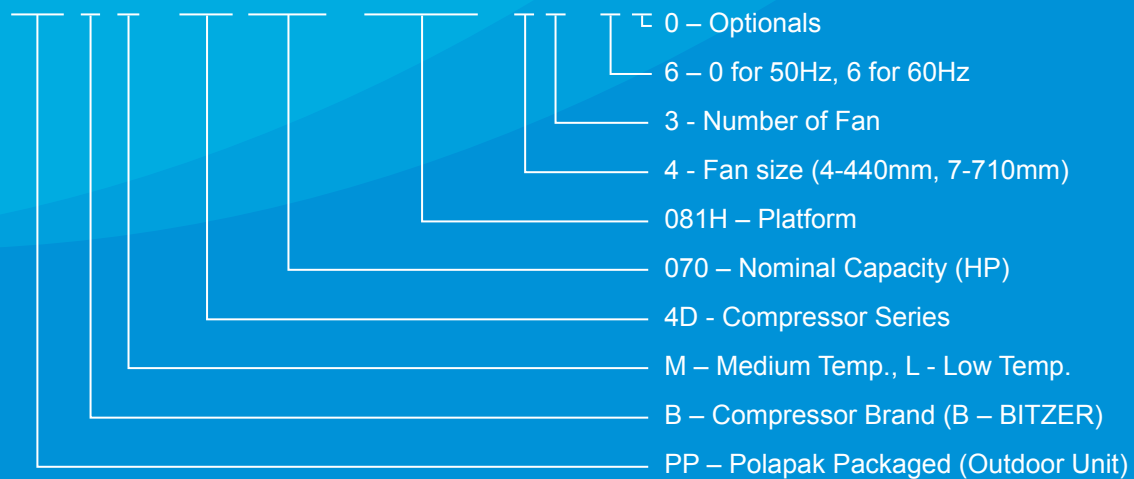


BITZER VARIPACK

## Nomenclature

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**P P B M - 4 D 0 7 0 . 0 8 1 H . 4 3 . 6 0**



## Accessories

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- Discharge Muffler
- Discharge Line - Oil Separator
- Liquid Receiver
- Liquid Line - Filter Drier, Moisture Indicator and Isolation Ball Valve
- Suction Line - Suction Accumulator
- Pre-charged Polyester Oil in Compressor (suitable for most refrigerants R22, R404a, R507 and R134a)
- Compressor Crankcase Heaters
- Electronic Oil Pressure Control (for 18HP and 23HP only)
- Dual Pressure Controls (suction auto, discharge manual rest) w Thermo coupler
- Gauges - Glycerine filled (low and high pressure)
- Blue Fin for Condenser to improve corrosion protection
- Condenser Fan Speed Control (by pressure)
- Electrical Control Panel



## INDEX

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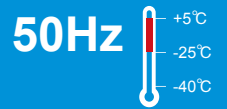
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# Polapak Medium Temperature Series

## Performance Data

### Capacity(kW)



#### R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				5	0	-5	-10	-15	-20	-25	
PPBM-4D070.081H.43	7	35	47	Qo	23.60	19.64	16.23	13.27	10.73	8.56	6.72
				Pe	7.54	7.19	6.76	6.27	5.72	5.15	4.55
		38	50	Qo	22.10	18.43	15.22	12.44	10.04	8.00	6.26
				Pe	7.83	7.43	6.96	6.42	5.84	5.23	4.61
		41	53	Qo	20.70	17.21	14.20	11.59	9.34	7.43	5.80
				Pe	8.10	7.65	7.14	6.56	5.95	5.31	4.65
PPBM-4V100.101H.43	10	35	47	Qo	30.30	25.00	20.40	16.49	13.12	10.25	7.84
				Pe	9.40	8.83	8.16	7.43	6.66	5.86	5.05
		38	50	Qo	28.40	23.40	19.10	15.39	12.21	9.50	7.23
				Pe	9.75	9.10	8.38	7.59	6.77	5.93	5.08
		41	53	Qo	26.50	21.80	17.77	14.28	11.29	8.76	6.63
				Pe	10.08	9.37	8.58	7.74	6.88	5.99	5.11
PPBM-4P150.161H.72	15	35	47	Qo	42.00	34.60	28.20	22.70	17.97	13.99	10.64
				Pe	13.17	12.34	11.38	10.32	9.19	8.03	6.87
		38	50	Qo	39.30	32.40	26.30	21.10	16.69	12.94	9.79
				Pe	13.65	12.72	11.67	10.53	9.33	8.11	6.90
		41	53	Qo	36.70	30.10	24.50	19.58	15.42	11.90	8.95
				Pe	14.11	13.08	11.94	10.72	9.46	8.18	6.91
PPBM-4N200.201H.72	20	35	47	Qo	49.90	41.30	33.80	27.40	21.90	17.27	13.35
				Pe	15.38	14.66	13.60	12.42	11.16	9.87	8.57
		38	50	Qo	46.80	38.70	31.70	25.60	20.50	16.08	12.38
				Pe	16.19	15.16	13.99	12.72	11.39	10.03	8.67
		41	53	Qo	43.70	36.10	29.50	23.90	19.00	14.88	11.42
				Pe	16.78	15.64	14.37	13.02	11.61	10.18	8.77

#### R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				5	0	-5	-10	-15	-20	-25	
PPBM-4D070.081H.43	7	35	47	Qo	22.80	18.94	15.58	12.66	10.15	7.99	6.16
				Pe	6.61	6.32	5.95	5.52	5.04	4.52	3.97
		38	50	Qo	21.90	18.18	14.94	12.13	9.70	7.62	5.85
				Pe	6.92	6.58	6.17	5.70	5.19	4.64	4.06
		41	53	Qo	21.00	17.44	14.32	11.61	9.27	7.27	-
				Pe	7.23	6.84	6.39	5.89	5.34	4.75	-
PPBM-4V100.101H.43	10	35	47	Qo	30.70	25.40	20.70	16.68	13.19	10.20	7.65
				Pe	8.33	7.90	7.37	6.77	6.10	5.40	4.67
		38	50	Qo	29.60	24.40	19.86	15.94	12.55	9.66	7.19
				Pe	8.67	8.17	7.59	6.94	6.23	5.48	4.71
		41	53	Qo	28.40	23.40	18.99	15.19	11.92	9.12	-
				Pe	8.99	8.44	7.80	7.10	6.34	5.55	-
PPBM-4P150.161H.72	15	35	47	Qo	42.60	35.10	28.60	23.00	18.13	13.97	10.42
				Pe	11.65	11.03	10.26	9.39	8.44	7.42	6.37
		38	50	Qo	41.00	33.70	27.40	21.90	17.23	13.20	9.77
				Pe	12.13	11.41	10.57	9.62	8.60	7.51	6.40
		41	53	Qo	39.30	32.30	26.20	20.90	16.34	12.44	-
				Pe	12.58	11.78	10.86	9.83	8.74	7.59	-
PPBM-4N200.201H.72	20	35	47	Qo	50.10	41.40	33.80	27.30	21.60	16.72	12.61
				Pe	13.63	12.93	12.07	11.09	10.01	8.86	7.68
		38	50	Qo	48.20	39.80	32.40	26.10	20.60	15.88	11.87
				Pe	14.20	13.40	12.45	11.38	10.22	9.00	7.76
		41	53	Qo	46.30	38.10	31.00	24.90	19.57	15.02	-
				Pe	14.76	13.86	12.81	11.66	10.42	9.13	-

# Polapak Medium Temperature Series

## Performance Data

### Capacity(kW)



#### R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				5	0	-5	-10	-15	-20	-25	
PPBM-4D070.081H.43	7	35	47	Qo	28.50	23.70	19.58	16.02	12.95	10.33	8.11
				Pe	9.10	8.68	8.16	7.56	6.91	6.21	5.49
		38	50	Qo	26.70	22.20	18.37	15.01	12.12	9.65	7.56
				Pe	9.45	8.97	8.39	7.75	7.05	6.31	5.56
		41	53	Qo	24.90	20.80	17.13	13.99	11.28	8.96	7.00
				Pe	9.78	9.24	8.61	7.92	7.18	6.40	5.61
PPBM-4V100.101H.43	10	35	47	Qo	36.60	30.20	24.70	19.91	15.83	12.37	9.46
				Pe	11.35	10.65	9.85	8.97	8.04	7.07	6.09
		38	50	Qo	34.30	28.30	23.10	18.57	14.73	11.47	8.72
				Pe	11.77	10.99	10.11	9.17	8.17	7.15	6.13
		41	53	Qo	32.00	26.30	21.50	17.24	13.63	10.57	8.00
				Pe	12.17	11.31	10.36	9.35	8.24	7.23	6.17
PPBM-4P150.161H.72	15	35	47	Qo	50.70	41.70	34.00	27.40	21.70	16.88	12.84
				Pe	15.89	14.89	13.73	12.45	11.10	9.70	8.29
		38	50	Qo	47.50	39.00	31.80	25.50	20.10	15.61	11.81
				Pe	16.47	15.35	14.08	12.71	11.27	9.79	8.32
		41	53	Qo	44.30	36.30	29.50	23.60	18.61	14.36	10.80
				Pe	17.02	15.78	14.41	12.94	11.42	9.87	8.34
PPBM-4N200.201H.72	20	35	47	Qo	60.20	49.80	40.80	33.10	26.50	20.80	16.11
				Pe	18.80	17.69	16.41	14.89	13.47	11.91	10.34
		38	50	Qo	56.50	46.70	38.20	30.90	24.70	19.40	14.94
				Pe	19.54	18.30	16.89	15.36	13.75	12.10	10.47
		41	53	Qo	52.80	43.60	35.60	28.80	22.90	17.96	13.79
				Pe	20.20	18.87	17.34	15.71	14.01	12.29	10.75

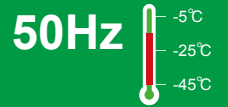
#### R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				5	0	-5	-10	-15	-20	-25	
PPBM-4D070.081H.43	7	35	47	Qo	27.50	22.90	18.80	15.28	12.25	9.65	7.43
				Pe	7.98	7.63	7.18	6.66	6.08	5.46	4.80
		38	50	Qo	26.40	21.90	18.03	14.64	11.71	9.20	7.06
				Pe	8.35	7.95	7.45	6.88	6.26	5.60	4.90
		41	53	Qo	25.40	21.10	17.28	14.01	11.19	8.77	6.71
				Pe	8.72	8.26	7.72	7.10	6.44	5.74	5.01
PPBM-4V100.101H.43	10	35	47	Qo	37.10	30.60	25.00	20.10	15.92	12.31	9.23
				Pe	10.05	9.53	8.89	8.17	7.37	6.52	5.64
		38	50	Qo	35.70	29.40	24.00	19.23	15.15	11.65	8.67
				Pe	10.46	9.87	9.16	8.37	7.52	6.61	5.68
		41	53	Qo	34.30	28.20	22.90	18.34	14.39	11.00	-
				Pe	10.85	10.19	9.42	8.57	7.65	6.69	-
PPBM-4P150.161H.72	15	35	47	Qo	51.40	42.40	34.50	27.70	21.90	16.86	12.57
				Pe	14.07	13.31	12.39	11.34	10.18	8.95	7.68
		38	50	Qo	49.40	40.70	33.10	26.50	20.80	15.93	11.79
				Pe	14.64	13.77	12.76	11.61	10.37	9.07	7.73
		41	53	Qo	47.50	39.00	31.60	25.20	19.72	15.01	-
				Pe	15.19	14.22	13.10	11.87	10.55	9.16	-
PPBM-4N200.201H.72	20	35	47	Qo	60.40	49.90	40.80	32.90	26.10	20.20	15.22
				Pe	16.45	15.60	14.57	13.38	12.08	10.70	9.27
		38	50	Qo	58.20	48.00	39.10	31.50	24.80	19.17	14.33
				Pe	17.14	16.17	15.03	13.74	12.34	10.87	9.36
		41	53	Qo	55.90	46.00	37.50	30.00	23.60	18.12	-
				Pe	17.81	16.72	15.46	14.07	12.58	11.02	-

# Polapak Low Temperature Series

## Performance Data

### Capacity(kW)



#### R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)								
				Evaporating Temperature (°C)								
				-15	-20	-25	-30	-35*	-40**	-45**		
PPBL-4T090.081.43	9	35	47	Qo	16.11	12.68	9.79	7.37	5.37	3.74	2.43	
				Pe	8.44	7.42	6.40	5.41	4.46	3.59	2.82	
		38	50	Qo	15.02	11.79	9.06	6.79	4.90	3.38	2.15	
				Pe	8.62	7.54	6.48	5.44	4.47	3.57	2.77	
		41	53	Qo	13.94	10.90	8.34	6.21	4.45	3.02	-	
				Pe	8.79	7.66	6.48	5.47	4.46	3.53	-	
PPBL-4P120.101.43	12	35	47	Qo	18.09	14.10	10.73	7.93	5.63	3.76	2.28	
				Pe	9.27	8.08	6.89	5.72	4.59	3.55	2.60	
		38	50	Qo	16.79	13.02	9.86	7.22	5.07	3.32	1.94	
				Pe	9.39	8.14	6.89	5.67	4.50	3.42	2.46	
		41	53	Qo	15.48	11.95	8.99	6.53	4.52	2.90	-	
				Pe	9.49	8.17	6.86	5.59	4.39	3.28	-	
PPBL-4H180.161.72	18	35	47	Qo	30.30	24.20	19.20	14.62	10.91	7.82	5.28	
				Pe	15.53	13.82	12.10	10.40	8.76	7.20	5.78	
		38	50	Qo	28.30	22.60	17.72	13.57	10.07	7.16	4.77	
				Pe	15.84	14.03	12.22	10.44	8.74	7.14	5.68	
		41	53	Qo	26.40	21.00	16.43	12.53	9.25	6.25	-	
				Pe	16.11	14.21	12.31	10.47	8.71	7.06	-	
PPBL-4G230.201.72	23	35	47	Qo	35.30	28.40	22.50	17.46	13.24	9.73	6.83	
				Pe	18.49	16.44	14.40	12.41	10.49	8.70	7.07	
		38	50	Qo	33.10	26.60	21.00	16.29	12.32	9.01	6.29	
				Pe	18.88	16.72	14.58	12.50	10.53	8.68	7.02	
		41	53	Qo	30.80	24.70	19.54	15.11	11.40	8.31	-	
				Pe	19.25	16.97	14.74	12.58	10.53	8.65	-	

#### R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				-15*	-20*	-25**	-30**	-35**	-40**	-45**	
PPBL-4T090.081.43	9	35	47	Qo	16.08	12.50	9.59	7.09	4.99	3.23	1.95
				Pe	7.65	6.76	6.02	5.24	4.41	3.51	2.57
		38	50	Qo	15.33	11.86	9.05	6.64	4.61	2.91	-
				Pe	7.83	6.88	6.09	5.25	4.37	3.43	-
		41	53	Qo	14.59	11.24	8.52	6.20	4.25	2.61	-
				Pe	8.00	6.99	6.13	5.22	4.27	3.29	-
PPBL-4P120.101.43	12	35	47	Qo	18.13	13.97	11.13	8.23	5.78	3.72	2.25
				Pe	8.44	7.42	6.81	5.83	4.90	4.04	3.28
		38	50	Qo	17.23	13.20	10.50	7.70	5.33	3.35	-
				Pe	8.61	7.50	6.91	5.89	4.93	4.04	-
		41	53	Qo	16.34	12.44	9.90	7.20	4.91	2.99	-
				Pe	8.76	7.58	7.01	5.96	4.95	4.02	-
PPBL-4H180.161.72	18	35	47	Qo	28.70	22.50	16.61	12.15	8.43	5.35	3.04
				Pe	13.38	11.92	10.59	9.03	7.45	5.82	4.23
		38	50	Qo	27.40	21.40	15.79	11.50	7.91	4.96	-
				Pe	13.65	12.01	10.86	9.22	7.54	5.80	-
		41	53	Qo	26.10	20.30	15.02	10.89	7.46	4.64	-
				Pe	13.89	12.26	11.16	9.43	7.65	5.79	-
PPBL-4G230.201.72	23	35	47	Qo	34.30	27.10	19.28	14.14	9.83	6.24	3.54
				Pe	16.22	14.54	12.75	10.95	9.04	7.08	5.27
		38	50	Qo	32.80	25.90	18.34	13.38	9.23	5.79	-
				Pe	16.62	14.84	13.15	11.24	9.20	7.06	-
		41	53	Qo	31.40	24.70	17.46	12.68	8.69	5.40	-
				Pe	17.00	15.12	13.59	11.57	9.39	7.05	-

Capacity based on 20°C Suction Temperature with no Sub-Cooling  
 \*Head Fan is required \*\*Head Fan is required, CIC is required

# Polapak Low Temperature Series Performance Data Capacity(kW)



## R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				-15	-20	-25	-30	-35*	-40**	-45**	
PPBL-4T090.081.43	9	35	47	Qo	19.44	15.31	11.81	8.89	6.48	4.51	2.94
				Pe	10.19	8.96	7.73	6.53	5.39	4.34	3.40
		38	50	Qo	18.13	14.23	10.94	8.19	5.92	4.07	2.60
				Pe	10.41	9.11	7.82	6.57	5.39	4.31	3.34
		41	53	Qo	16.83	13.16	10.07	7.49	5.37	3.64	-
				Pe	10.61	9.24	7.90	6.60	5.38	4.27	-
PPBL-4P120.101.43	12	35	47	Qo	21.80	17.01	12.95	9.57	6.79	4.54	2.75
				Pe	11.18	9.75	8.31	6.90	5.54	4.28	3.14
		38	50	Qo	20.30	15.72	11.90	8.72	6.11	4.01	2.35
				Pe	11.33	9.82	8.31	6.84	5.43	4.13	2.97
		41	53	Qo	18.69	14.43	10.85	7.88	5.45	3.49	-
				Pe	11.45	9.86	8.28	6.75	5.30	3.96	-
PPBL-4H180.161.72	18	35	47	Qo	36.50	29.20	23.00	17.64	13.17	9.44	6.37
				Pe	18.74	16.68	14.60	12.55	10.57	8.69	6.97
		38	50	Qo	34.20	27.30	21.40	16.38	12.16	8.65	5.76
				Pe	19.11	16.93	14.74	12.61	10.55	8.62	6.86
		41	53	Qo	31.90	25.40	19.83	15.12	11.16	7.87	-
				Pe	19.45	17.14	14.86	12.63	10.51	8.53	-
PPBL-4G230.201.72	23	35	47	Qo	42.50	34.20	27.10	21.10	15.98	11.74	8.24
				Pe	22.30	19.85	17.38	14.97	12.67	10.50	8.54
		38	50	Qo	39.90	32.10	25.30	19.66	14.87	10.88	7.60
				Pe	22.80	20.20	17.60	15.09	12.70	10.48	8.47
		41	53	Qo	37.20	29.90	23.60	18.24	13.76	10.03	-
				Pe	23.20	20.50	17.78	15.18	12.71	10.44	-

## R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (°C)	SCT (°C)	Refrigerating Capacity Qo(kW) Power Input Pe(kW)							
				Evaporating Temperature (°C)							
				-15*	-20*	-25**	-30**	-35**	-40**	-45**	
PPBL-4T090.081.43	9	35	47	Qo	19.41	15.09	11.58	8.56	6.02	3.89	-
				Pe	9.24	8.16	7.26	6.32	5.32	4.23	-
		38	50	Qo	18.51	14.32	10.92	8.02	5.56	3.51	-
				Pe	9.45	8.31	7.35	6.34	5.28	4.14	-
		41	53	Qo	17.61	13.56	10.28	7.49	5.13	3.16	-
				Pe	9.66	8.44	7.40	6.30	5.16	3.97	-
PPBL-4P120.101.43	12	35	47	Qo	21.90	16.86	13.44	9.93	6.97	4.49	-
				Pe	10.20	8.93	8.21	7.04	5.91	4.87	-
		38	50	Qo	20.80	15.93	12.68	9.29	6.43	4.04	-
				Pe	10.39	9.05	8.34	7.11	5.95	4.87	-
		41	53	Qo	19.72	15.01	11.95	8.69	5.93	3.61	-
				Pe	10.57	9.15	8.47	7.19	5.98	4.86	-
PPBL-4H180.161.72	18	35	47	Qo	34.60	27.10	20.00	14.67	10.17	6.45	-
				Pe	16.15	14.38	12.78	10.90	9.00	7.03	-
		38	50	Qo	33.00	25.80	19.06	13.88	9.55	5.99	-
				Pe	16.47	14.61	13.11	11.13	9.10	7.00	-
		41	53	Qo	31.50	24.50	18.13	13.14	9.00	5.60	-
				Pe	16.77	14.80	13.47	11.39	9.23	6.98	-
PPBL-4G230.201.72	23	35	47	Qo	41.40	32.70	23.30	17.07	11.86	7.53	-
				Pe	19.57	17.55	15.38	13.21	10.91	8.55	-
		38	50	Qo	39.60	31.30	22.10	16.15	11.14	6.98	-
				Pe	20.10	17.91	15.87	13.57	11.10	8.52	-
		41	53	Qo	37.90	29.80	21.10	15.31	10.49	6.52	-
				Pe	20.50	18.25	16.40	13.97	11.33	8.51	-

Capacity based on 20°C Suction Temperature with no Sub-Cooling  
\*Head Fan is required \*\*Head Fan is required, CIC is required



# Technical Data

## 50Hz

Unit Model	Compressor Model	Nominal Input Rating (HP)	No. of Fans	Fan Diameter (mm)	Total Fan Motor Rating (W)	Total Fan Motor Current (A)	Receiver (L)	Liquid Line (Inch)	Suction Line (Inch)	Compressor		
										(V/Ph/Hz)	LRA (A)	MCC (A)
PPBM-4D070.081H.43	4DES-7Y	7	3	440	478.5	2.25	30	5/8	1-1/8	380..420V 3P/50Hz/60Hz	82.4	16.5
PPBM-4V100.101H.43	4VES-10Y	10	3	440	478.5	2.25	30	5/8	1-1/8		99.0	19.9
PPBM-4P150.161H.72	4PES-15Y	15	2	710	1471.0	6.90	40	7/8	1-5/8		132.0	28.2
PPPM-4N200.201H.72	4NES-20Y	20	2	710	1471.0	6.90	40	7/8	1-5/8		158.0	33.2
PPBL-4T090.081.43	4TES-9Y	9	3	440	478.5	2.25	30	5/8	1-3/8		81.0	19.9
PPBL-4P120.101.43	4PES-12Y	12	3	440	478.5	2.25	30	5/8	1-3/8		99.0	22.7
PPBL-4H180.161.72	4HE-18Y	18	2	710	1471.0	6.90	40	7/8	1-5/8		158.0	36.7
PPBL-4G230.201.72	4GE-23Y	23	2	710	1471.0	6.90	40	7/8	2-1/8		158.0	43.9

All fan motor models are 220V/1Ph/50Hz

## 60Hz

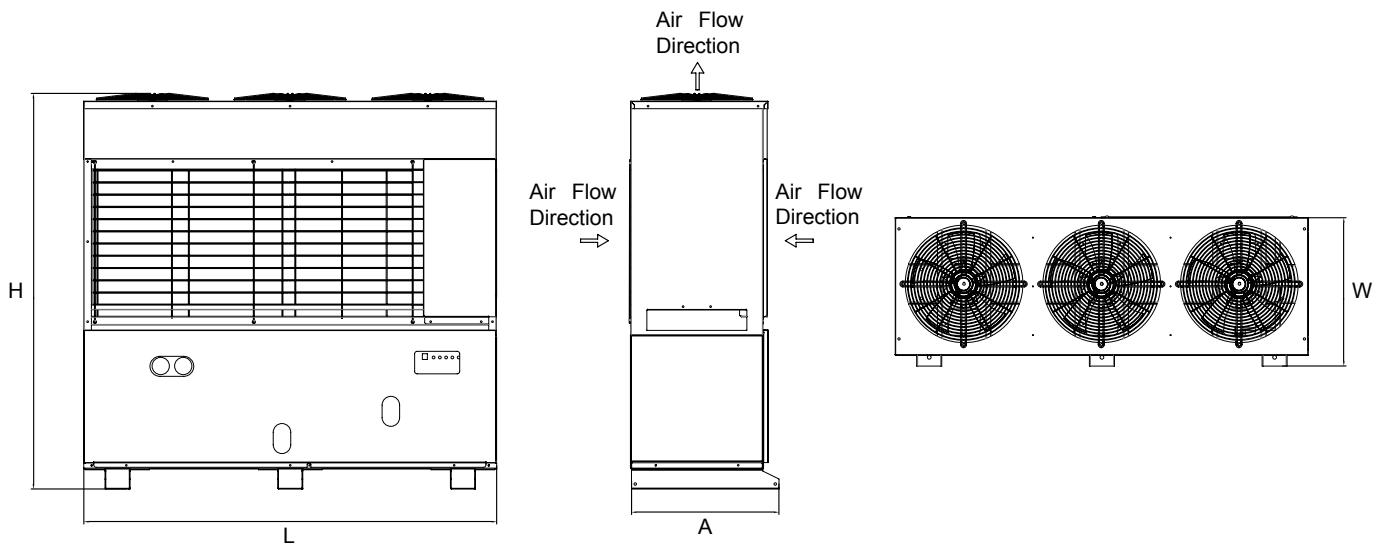
Unit Model	Compressor Model	Nominal Input Rating (HP)	No. of Fans	Fan Diameter (mm)	Total Fan Motor Rating (W)	Total Fan Motor Current (A)	Receiver (L)	Liquid Line (Inch)	Suction Line (Inch)	Compressor		
										(V/Ph/Hz)	LRA (A)	MCC (A)
PPBM-4D070.081H.43	4DES-7Y	7	3	440	561.0	2.64	30	5/8	1-1/8	380V 3P/60Hz	104.6	21.0
PPBM-4V100.101H.43	4VES-10Y	10	3	440	561.0	2.64	30	5/8	1-1/8		126.0	25.3
PPBM-4P150.161H.72	4PES-15Y	15	2	710	1701.0	8.10	40	7/8	1-5/8		168.0	35.8
PPPM-4N200.201H.72	4NES-20Y	20	2	710	1701.0	8.10	40	7/8	1-5/8		201.0	42.2
PPBL-4T090.081.43	4TES-9Y	9	3	440	561.0	2.64	30	5/8	1-3/8		103.0	25.3
PPBL-4P120.101.43	4PES-12Y	12	3	440	561.0	2.64	30	5/8	1-3/8		126.0	28.8
PPBL-4H180.161.72	4HE-18Y	18	2	710	1701.0	8.10	40	7/8	1-5/8		201.0	46.6
PPBL-4G230.201.72	4GE-23Y	23	2	710	1701.0	8.10	40	7/8	2-1/8		201.0	55.7

All fan motor models are 220V/1Ph/60Hz

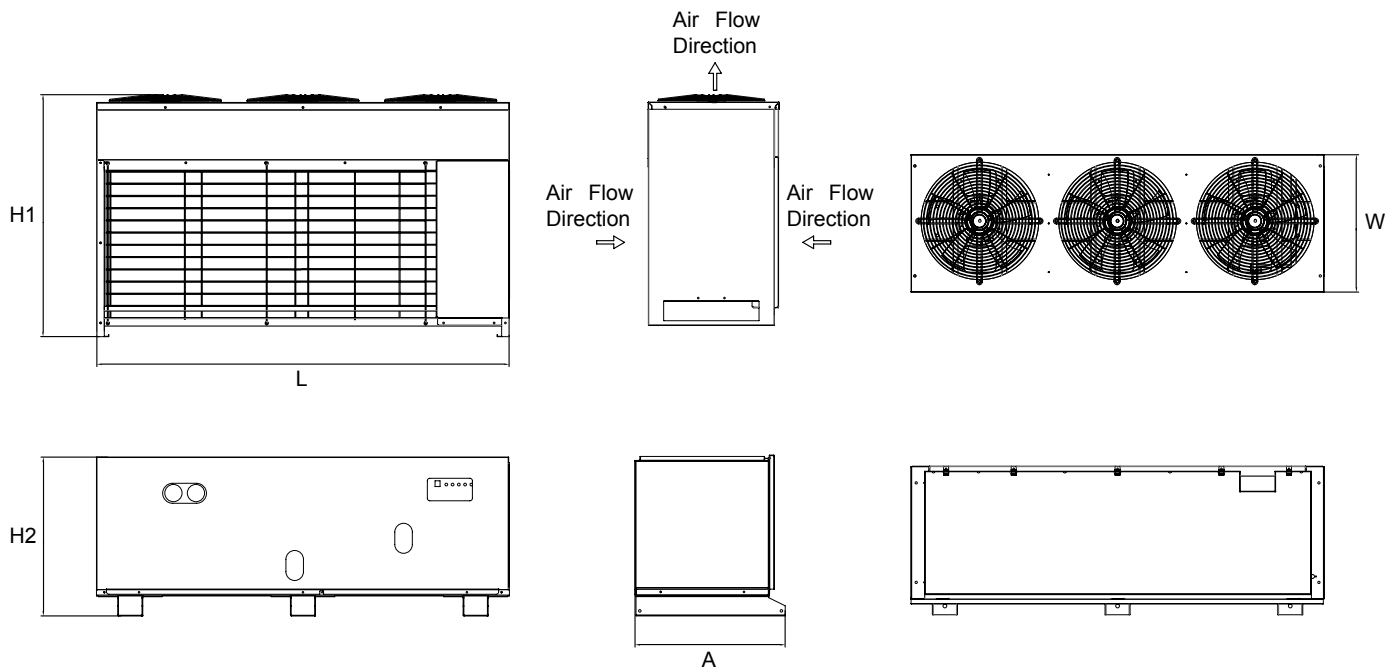
# Dimensions

Model	Size (mm)											*Weight
	A	H	H1	H2	W	L	H*	H1*	H2*	W*	L*	(kg)
PPBM-4D070.081H.43	590	1593	958	635	595	1650	1743	1097	796	740	1800	650
PPBM-4V100.101H.43	590	1593	958	635	595	1650	1743	1097	796	740	1800	650
PPBL-4T090.081.43	590	1593	958	635	595	1650	1743	1097	796	740	1800	750
PPBL-4P120.101.43	590	1593	958	635	595	1650	1743	1097	796	740	1800	750

## Integrated Unit



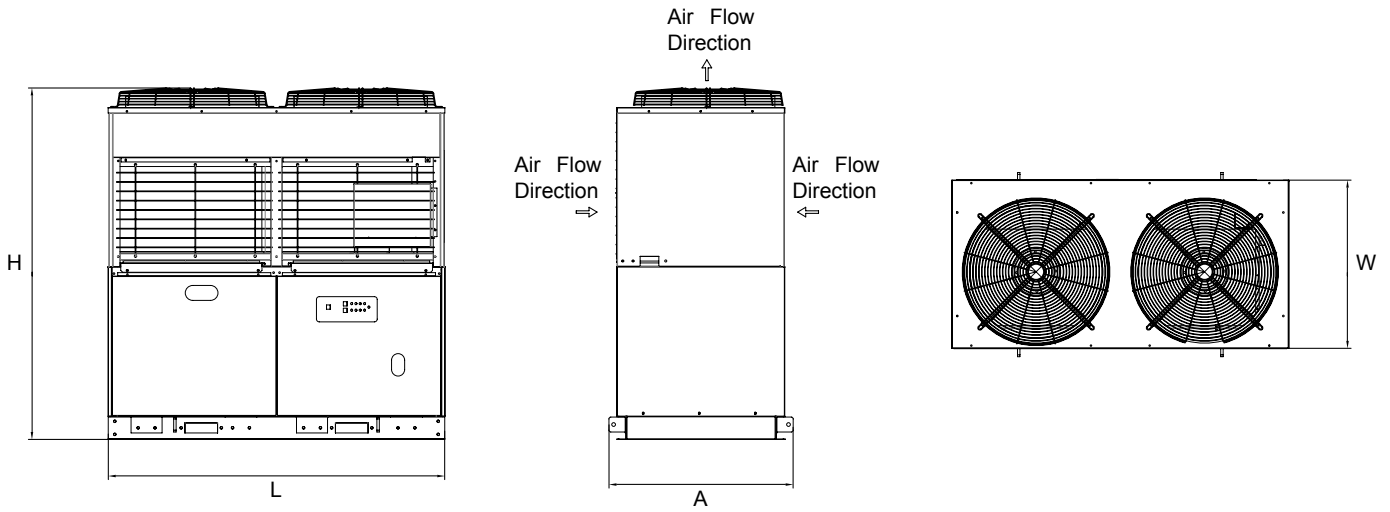
## Remote Condenser



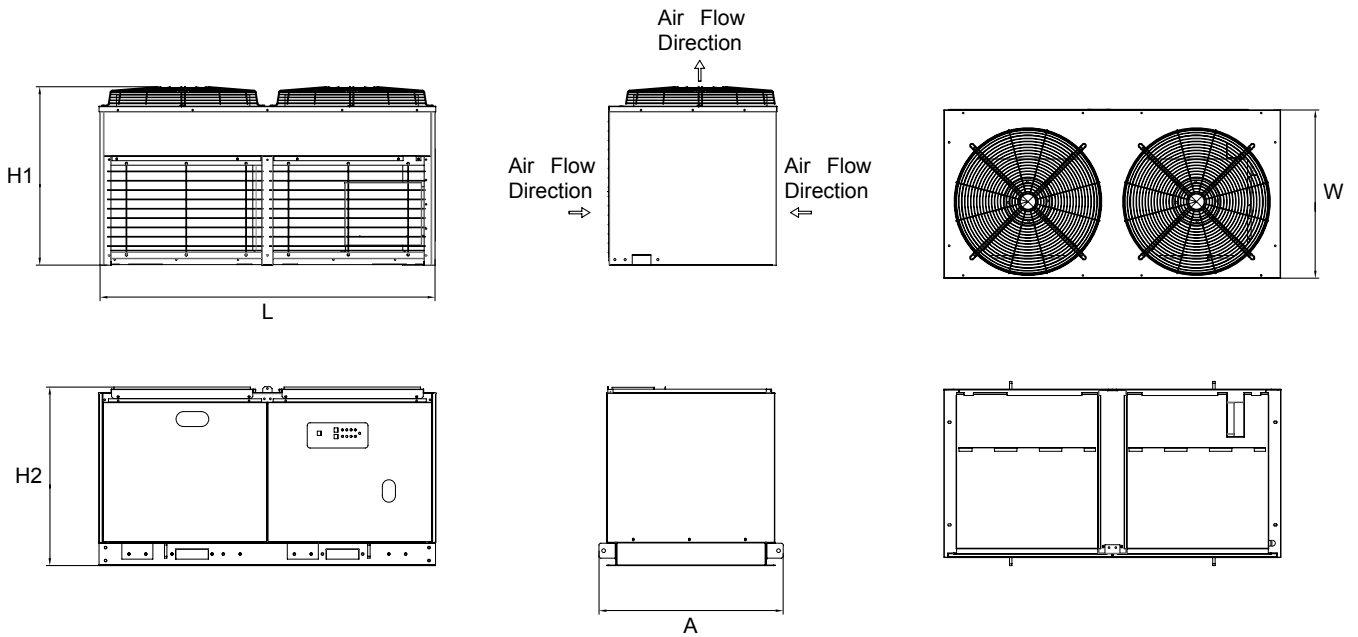
# Dimensions

Model	Size (mm)											*Weight
	A	H	H1	H2	W	L	H*	H1*	H2*	W*	L*	(kg)
PPBM-4P150.161H.72	985	1872	930	942	900	1800	2040	1098	1092	1050	1950	800
PPPM-4N200.201H.72	985	1872	930	942	900	1800	2040	1098	1092	1050	1950	850
PPBL-4H180.161.72	985	1872	930	942	900	1800	2040	1098	1092	1050	1950	900
PPBL-4G230.201.72	985	1872	930	942	900	1800	2040	1098	1092	1050	1950	900

## Integrated Unit



## Remote Condenser





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