PolaPak

Outdoor Packaged Unit

PPP Ver1.0

Polapak Outdoor Packaged Unit

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

- 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 from +5°C to -45°C
- All units are factory tested for braze joint leaks, wiring connections, electrical continuity and start-up performance

Optionals

- 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
- Stainless steel casing
- Copper / Epoxy condenser fins

BITZER VARIPACK

Nomenclature

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

- 0 – Optionals
- 6 – 0 for 50Hz, 6 for 60Hz
- 3 - Number of Fan
- 4 - Fan size (4-400mm, 7-710mm)
- 081H – Platform
- 070 – Nominal Capacity (HP)
- 4D - Compressor Series
- M – Medium Temp., L - Low Temp.
- B – Compressor Brand (B – BITZER)
- PP – Polapak Packaged (Outdoor Unit)

Accessories

- Muffler
- Oil Separator
- Discharge Check Valve
- Liquid Receiver
- Liquid Line Filter Drier
- Moisture Indicator
- Ball Valve
- Suction Accumulator
- Insulation
- Crankcase Heater
- Electronic Oil Level Switch (Only for 16, 20Hp with oil pump)
- Compressor High & Low Pressure Cut-Out
- High & Low Glycerine filled gauges
- Condensing Pressure Control
- Electronic Compressor Control

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Polapak Medium Temperature Series
Performance Data
Capacity(kW)

50Hz

+5℃
-25℃
-40℃

R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW)						
					Evaporating Temperature (℃)						
					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
PPPM-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

Capacity based on 20℃ Suction Temperature with no Sub-Cooling

R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW)						
					Evaporating Temperature (℃)						
					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	-
PPPM-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	-

Capacity based on 20℃ Suction Temperature with no Sub-Cooling

R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW)						
					Evaporating Temperature (℃)						
					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	12.74	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
PPPM-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	17.05

Capacity based on 20℃ Suction Temperature with no Sub-Cooling

R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW)						
					Evaporating Temperature (℃)						
					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	-
PPPM-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	-

Capacity based on 20℃ Suction Temperature with no Sub-Cooling

Polapak Low Temperature Series
Performance Data
Capacity(kW)

50Hz

-5℃
-25℃
-45℃

R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW)						
					Evaporating Temperature (℃)						
					-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	14.89	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	-

Capacity based on 20℃ Suction Temperature with no Sub-Cooling

R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW)						
					Evaporating Temperature (℃)						
					-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℃ 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)

60Hz

-5℃
-25℃
-45℃

R404A

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW) — Evaporating Temperature (℃) -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	-

Capacity based on 20℃ Suction Temperature with no Sub-Cooling

R22

Compressor Model	Nominal Power (HP)	Ambient Temperature (℃)	SCT (℃)		Refrigerating Capacity Qo(kW) Power Input Pe(kW) — Evaporating Temperature (℃) -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℃ Suction Temperature with no Sub-Cooling
*Head Fan is required **Head Fan is required, CIC is required

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)	Reciever (L)	Liquid Line (Inch)	Suction Line (Inch)	Compressor		
										(V/Ph/Hz)	LRA (A)	MCC (A)
PPBM-4D070.081H.43	4DES-7Y	7	3	400	390	1.80	30	5/8	1-1/8	380..420V 3P/50Hz/60Hz	82.4	16.5
PPBM-4V100.101H.43	4VES-10Y	10	3	400	390	1.80	30	5/8	1-1/8		99.0	19.9
PPBM-4P150.161H.72	4PES-15Y	15	2	710	2000	5.00	40	7/8	1-5/8		132.0	28.2
PPPM-4N200.201H.72	4NES-20Y	20	2	710	2000	5.00	40	7/8	1-5/8		158.0	33.2
PPBL-4T090.081.43	4TES-9Y	9	3	400	390	1.80	30	5/8	1-3/8		81.0	19.9
PPBL-4P120.101.43	4PES-12Y	12	3	400	390	1.80	30	5/8	1-3/8		99.0	22.7
PPBL-4H180.161.72	4HE-18Y	18	2	710	2000	5.00	40	7/8	1-5/8		158.0	36.7
PPBL-4G230.201.72	4GE-23Y	23	2	710	2000	5.00	40	7/8	2-1/8		158.0	43.9

400mm fan motor models are 230V/1Ph/50Hz, 710mm fan motor models are 400V/3Ph/50Hz

60Hz

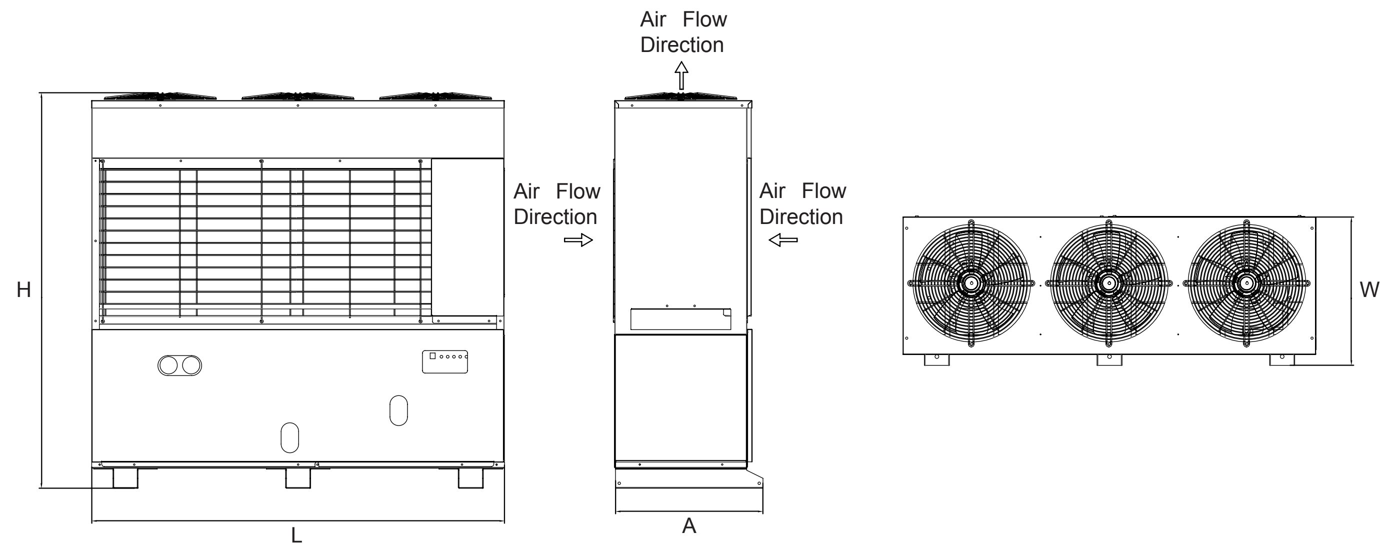
Unit Model	Compressor Model	Nominal Input Rating (HP)	No. of Fans	Fan Diameter (mm)	Total Fan Motor Rating (W)	Total Fan Motor Current (A)	Reciever (L)	Liquid Line (Inch)	Suction Line (Inch)	Compressor		
										(V/Ph/Hz)	LRA (A)	MCC (A)
PPBM-4D070.081H.43	4DES-7Y	7	3	400	510	2.34	30	5/8	1-1/8	380V 3P/60Hz	104.6	21.0
PPBM-4V100.101H.43	4VES-10Y	10	3	400	510	2.34	30	5/8	1-1/8		126.0	25.3
PPBM-4P150.161H.72	4PES-15Y	15	2	710	2900	5.40	40	7/8	1-5/8		168.0	35.8
PPPM-4N200.201H.72	4NES-20Y	20	2	710	2900	5.40	40	7/8	1-5/8		201.0	42.2
PPBL-4T090.081.43	4TES-9Y	9	3	400	510	2.34	30	5/8	1-3/8		103.0	25.3
PPBL-4P120.101.43	4PES-12Y	12	3	400	510	2.34	30	5/8	1-3/8		126.0	28.8
PPBL-4H180.161.72	4HE-18Y	18	2	710	2900	5.40	40	7/8	1-5/8		201.0	46.6
PPBL-4G230.201.72	4GE-23Y	23	2	710	2900	5.40	40	7/8	2-1/8		201.0	55.7

400mm fan motor models are 230V/1Ph/60Hz, 710mm fan motor models are 400V/3Ph/60Hz

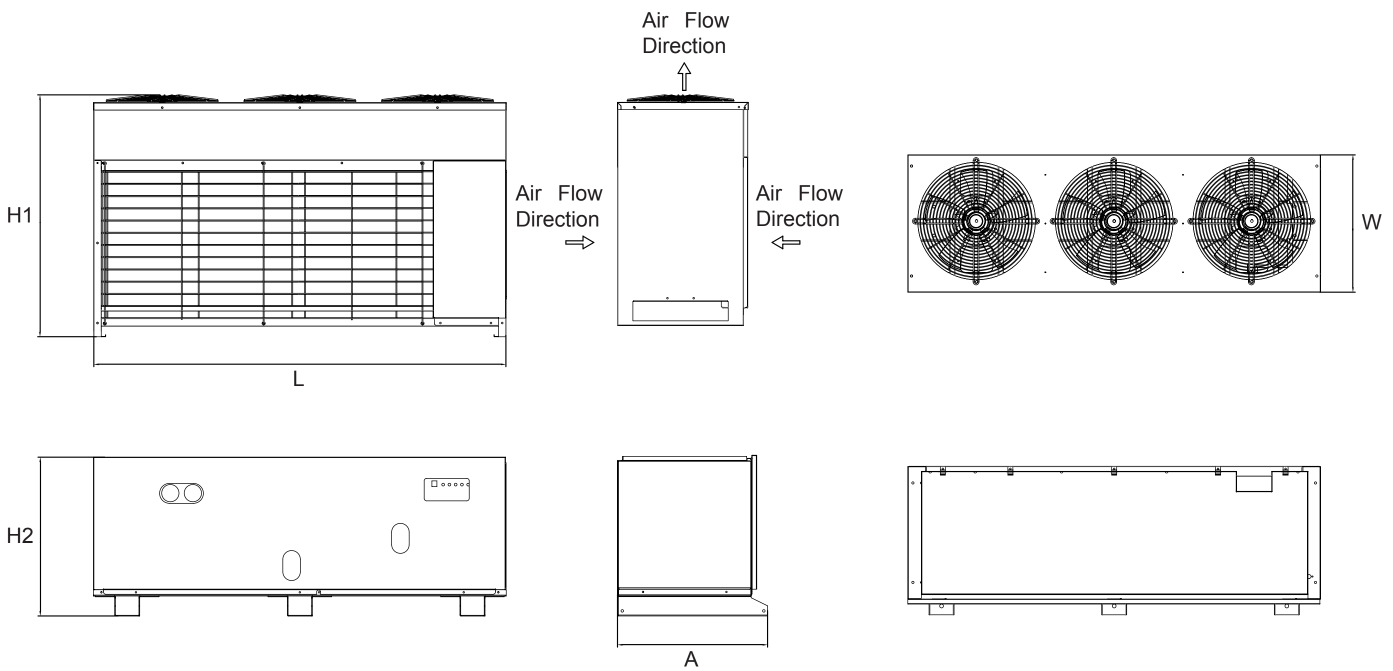
Dimensions

Model	Size (mm)										*Weight
	A	H	H1	H2	W	L	H*	H1*	H2*	W*	L*	(kg)
PPBM-4D070.081H.43	590	1900	1254	646	595	1650	2050	1404	796	740	1800	650
PPBM-4V100.101H.43	590	1900	1254	646	595	1650	2050	1404	796	740	1800	650
PPBL-4T090.081.43	590	1593	947	646	595	1650	1743	1097	796	740	1800	750
PPBL-4P120.101.43	590	1593	947	646	595	1650	1743	1097	796	740	1800	750

Integrated Unit



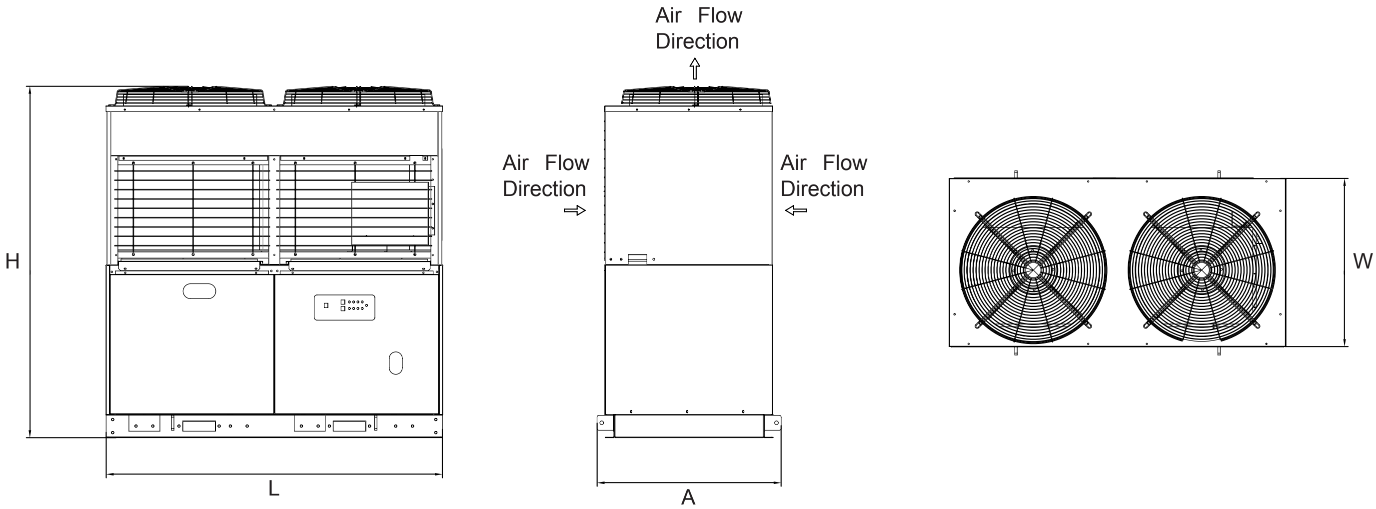
Remote Condenser



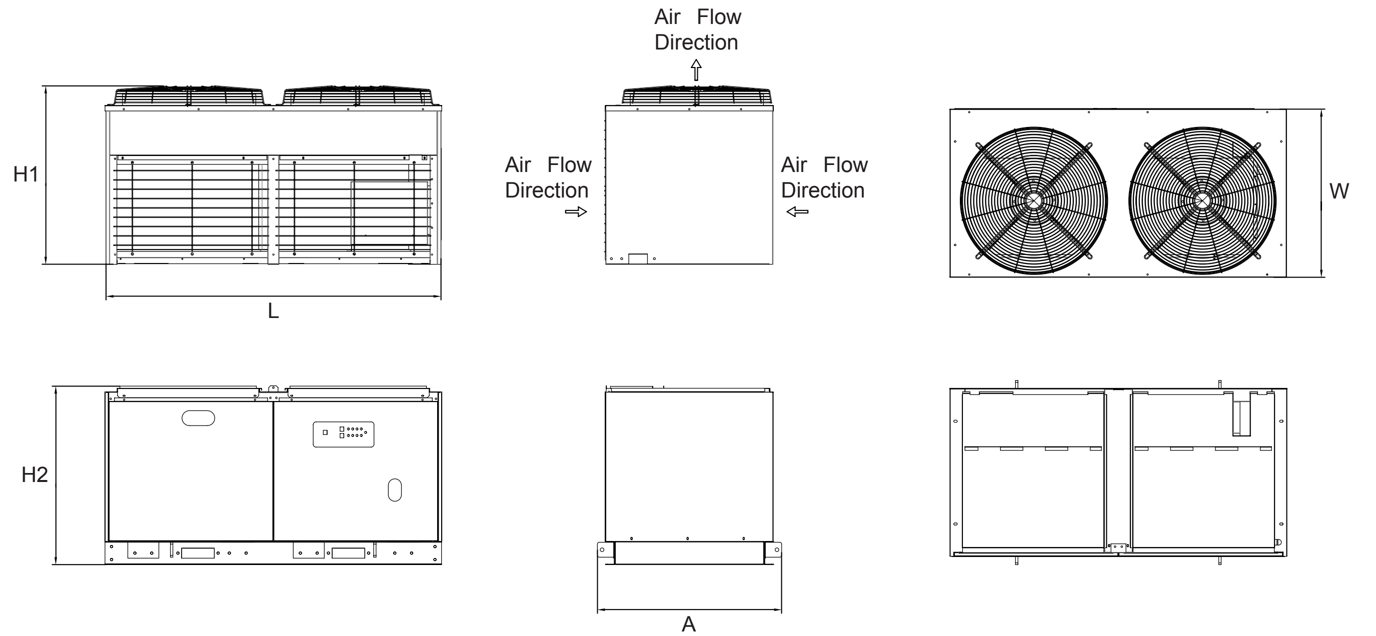
Dimensions

Model	Size (mm)										*Weight
	A	H	H1	H2	W	L	H*	H1*	H2*	W*	L*	(kg)
PPBM-4P150.161H.72	985	1890	948	942	900	1800	2040	1098	1092	1050	1950	800
PPPM-4N200.201H.72	985	1890	948	942	900	1800	2040	1098	1092	1050	1950	850
PPBL-4H180.161.72	985	1890	948	942	900	1800	2040	1098	1092	1050	1950	900
PPBL-4G230.201.72	985	1890	948	942	900	1800	2040	1098	1092	1050	1950	900

Integrated Unit



Remote Condenser



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