

PHAT Series



HIGH AMBIENT CONDENSING UNIT
POWERED BY TECUMSEH

R404A / R134A



BENEFITS

- All condenser coils supplied with “Patton Coat” fin and coil protective coating
- Dual pressure control (Convertible reset) fitted on all models
- Generously sized high ambient condensers
- Oil separator fitted on all dual fan models
- Suction accumulator fitted on dual fan LT models
- Reliable high efficiency Tecumseh compressors
- High efficiency, low noise external rotor fan motors
- Liquid line drier & sight glass fitted on all models
- Electrical box fully wired complete with main isolator switch in IP67 enclosures

R404A LOW TEMP



Model	Nom hp	Com ph	Ambient Temp. (°C)	Capacity (kW)						
				Evaporating temp (°C)						
				-40	-35	-30	-25	-20	-15	-10
PHAT100S-1F-BR-L	1.00	1	32	0.48	0.67	0.89	1.13	1.40	1.69	2.01
			35	0.44	0.62	0.83	1.06	1.31	1.59	1.89
			38		0.58	0.77	0.99	1.23	1.50	1.78
			40		0.54	0.73	0.94	1.18	1.43	1.70
			43		0.50	0.68	0.87	1.09	1.33	1.59
PHAT150S-1F-BR-L	1.50	1	32	0.67	0.91	1.20	1.52	1.90	2.32	2.78
			35	0.62	0.85	1.12	1.43	1.79	2.19	2.63
			38		0.79	1.05	1.35	1.68	2.06	2.48
			40		0.75	1.00	1.29	1.61	1.98	2.38
			43		0.69	0.93	1.20	1.51	1.85	2.23
PHAT200S-1F-BR-L	2.00	1	32	0.83	1.22	1.65	2.14	2.66	3.24	3.84
			35	0.74	1.12	1.54	2.00	2.51	3.04	3.62
			38		1.01	1.42	1.86	2.34	2.86	3.40
			40		0.94	1.34	1.77	2.24	2.73	3.25
			43		0.84	1.22	1.63	2.07	2.54	3.04
PHAT200S-2F-BR-LSA	2.00	1	32	0.87	1.28	1.74	2.27	2.85	3.49	4.19
			35	0.78	1.18	1.62	2.13	2.69	3.29	3.96
			38		1.07	1.50	1.98	2.52	3.10	3.73
			40		1.00	1.42	1.89	2.41	2.97	3.58
			43		0.89	1.30	1.75	2.24	2.78	3.35
PHAT200T-1F-BR-L	2.00	3	32	0.86	1.23	1.65	2.10	2.59	3.12	3.68
			35	0.77	1.13	1.53	1.97	2.44	2.95	3.48
			38		1.03	1.41	1.84	2.28	2.77	3.28
			40		0.96	1.34	1.75	2.19	2.66	3.15
			43		0.86	1.23	1.62	2.04	2.48	2.95
PHAT200T-2F-BR-LSAE	2.00	3	32	0.90	1.29	1.74	2.22	2.76	3.35	3.99
			35	0.81	1.19	1.62	2.09	2.60	3.17	3.78
			38		1.08	1.50	1.95	2.44	2.98	3.57
			40		1.01	1.41	1.86	2.34	2.87	3.43
			43		0.91	1.30	1.72	2.18	2.68	3.23
PHAT250S-2F-BR-LSA	2.50	1	32	1.15	1.66	2.25	2.91	3.66	4.47	5.36
			35	1.03	1.52	2.09	2.73	3.44	4.23	5.07
			38		1.39	1.93	2.55	3.23	3.98	4.79
			40		1.30	1.83	2.43	3.09	3.81	4.60
			43		1.16	1.67	2.25	2.87	3.57	4.32
PHAT250T-1F-BR-L	2.50	3	32	1.14	1.65	2.23	2.91	3.67	4.50	5.39
			35	1.03	1.51	2.07	2.71	3.43	4.22	5.08
			38		1.38	1.91	2.52	3.21	3.96	4.77
			40		1.30	1.81	2.40	3.06	3.79	4.56
			43		1.17	1.66	2.21	2.83	3.52	4.26
PHAT250T-2F-BR-LSAE	2.50	3	32	1.15	1.65	2.24	2.92	3.68	4.52	5.43
			35	1.04	1.51	2.08	2.73	3.46	4.24	5.12
			38		1.39	1.92	2.54	3.22	3.98	4.80
			40		1.30	1.82	2.41	3.07	3.81	4.60
			43		1.18	1.67	2.23	3.85	3.55	4.30
PHAT400T-2F-BR-LSAE	4.00	3	32	1.42	2.15	3.00	3.98	5.08	6.29	7.60
			35	1.26	1.95	2.76	3.69	4.74	5.88	7.12
			38		1.77	2.53	3.42	4.40	5.48	6.64
			40		1.64	2.38	3.23	4.18	5.21	6.33
			43		1.46	2.15	2.95	3.84	4.82	5.86
PHAT550T-2F-BR-LSAE	5.50	3	32	2.07	2.94	3.97	5.15	6.48	7.96	9.59
			35	1.88	2.71	3.68	4.81	6.08	7.49	9.02
			38		2.48	3.41	4.47	5.67	7.01	8.47
			40		2.34	3.23	4.25	5.41	6.70	8.09
			43		2.11	2.95	3.92	5.01	6.22	7.55

Note: The rating condition is based on a suction return gas 20 °C, Subcool 0 K

R404A MEDIUM TEMP



Model	Nom hp	Com ph	Ambient Temp. (°C)	Capacity (kW)						
				Evaporating temp (°C)						
				-20	-15	-10	-5	0	5	10
PHAT100S-1F-Z-L	1.00	1	32	1.10	1.38	1.69	2.05	2.44	2.88	3.36
			35	1.04	1.30	1.60	1.94	2.31	2.73	3.18
			38	0.97	1.23	1.51	1.83	2.18	2.57	2.99
			40	0.93	1.17	1.45	1.75	2.09	2.46	2.87
			43	0.87	1.10	1.35	1.64	1.95	2.31	2.69
PHAT118S-1F-Z-L	1.18	1	32	1.33	1.69	2.10	2.56	3.05	3.59	4.16
			35	1.24	1.59	1.98	2.40	2.87	3.38	3.92
			38	1.15	1.48	1.85	2.26	2.70	3.18	3.68
			40	1.10	1.42	1.77	2.16	2.58	3.04	3.52
			43	1.01	1.31	1.65	2.01	2.40	2.83	3.28
PHAT125S-1F-Z-L	1.25	1	32	1.53	1.91	2.32	2.78	3.28	3.84	4.42
			35	1.44	1.80	2.19	2.63	3.10	3.62	4.16
			38	1.34	1.68	2.06	2.47	2.92	3.40	3.92
			40	1.28	1.61	1.97	2.37	2.80	3.25	3.75
			43	1.18	1.50	1.84	2.21	2.61	3.04	3.50
PHAT150S-1F-Z-L	1.50	1	32	1.97	2.49	3.06	3.68	4.36	5.10	5.88
			35	1.85	2.34	2.89	3.48	4.12	4.82	5.56
			38	1.72	2.20	2.71	3.27	3.88	4.53	5.24
			40	1.64	2.10	2.60	3.14	3.72	4.35	5.01
			43	1.51	1.95	2.42	2.93	3.47	4.06	4.68
PHAT200S-1F-Z-L	2.00	1	32	2.15	2.81	3.54	4.35	5.22	6.18	7.22
			35	1.99	2.62	3.33	4.10	4.94	5.84	6.82
			38	1.83	2.44	3.11	3.84	4.63	5.50	6.41
			40	1.71	2.31	2.96	3.66	4.43	5.26	6.14
			43	1.55	2.12	2.74	3.40	4.13	4.90	5.74
PHAT200S-2F-Z-LS	2.00	1	32	2.10	2.74	3.44	4.22	5.05	5.95	6.89
			35	1.94	2.56	3.23	3.97	4.76	5.60	6.50
			38	1.78	2.37	3.02	3.71	4.46	5.27	6.11
			40	1.67	2.25	2.87	3.55	4.27	5.04	5.85
			43	1.51	2.07	2.66	3.29	3.97	4.69	5.45
PHAT200T-1F-Z-L	2.00	3	32	2.09	2.73	3.44	4.22	5.06	5.95	6.88
			35	1.93	2.54	3.23	3.98	4.78	5.61	6.50
			38	1.76	2.36	3.02	3.72	4.49	5.28	6.12
			40	1.66	2.23	2.87	3.55	4.29	5.05	5.86
			43	1.48	2.05	2.65	3.30	3.99	4.72	5.47
PHAT200T-2F-Z-LSE	2.00	3	32	2.13	2.80	3.54	4.36	5.23	6.18	7.18
			35	1.97	2.61	3.33	4.10	4.95	5.85	6.80
			38	1.81	2.42	3.10	3.85	4.65	5.51	6.41
			40	1.70	2.30	2.96	3.68	4.45	5.28	6.15
			43	1.53	2.11	2.74	3.42	4.15	4.93	5.75
PHAT250S-1F-Z-L	2.50	1	32	2.70	3.61	4.53	5.47	6.44	7.47	8.55
			35	2.44	3.34	4.23	5.16	6.09	7.07	8.09
			38	2.16	3.06	3.94	4.83	5.73	6.66	7.64
			40	1.98	2.87	3.75	4.62	5.49	6.39	7.33
			43	1.70	2.59	3.44	4.29	5.12	5.98	6.86
PHAT250S-2F-Z-LS	2.50	1	32	2.74	3.66	4.59	5.55	6.56	7.63	8.75
			35	2.48	3.38	4.30	5.24	6.20	7.22	8.27
			38	2.19	3.11	4.01	4.91	5.84	6.80	7.81
			40	2.01	2.92	3.81	4.69	5.60	6.53	7.49
			43	1.73	2.64	3.51	4.37	5.22	6.11	7.02

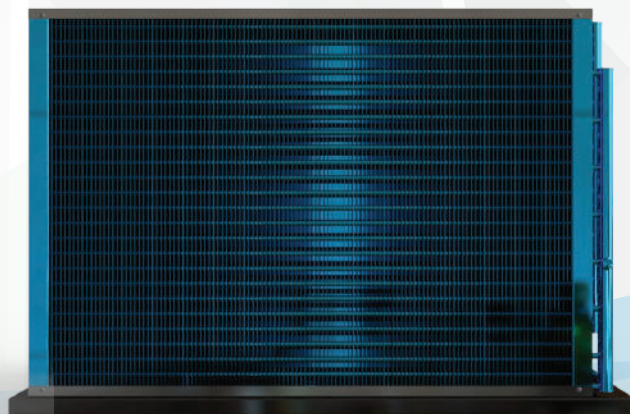
Note: The rating condition is based on a suction return gas 20 °C, Subcool 0 K

R404A MEDIUM TEMP



Model	Nom hp	Com ph	Ambient Temp. (°C)	Capacity (kW)						
				Evaporating temp (°C)						
				-20	-15	-10	-5	0	5	10
PHAT250T-1F-Z-L	2.50	3	32	2.80	3.58	4.43	5.37	6.36	7.43	8.56
			35	2.59	3.34	4.17	5.05	6.00	7.02	8.10
			38	2.38	3.11	3.90	4.74	5.64	6.60	7.62
			40	2.24	2.95	3.72	4.53	5.41	6.33	7.29
			43	2.03	2.71	3.44	4.22	5.04	5.90	6.82
PHAT250T-2F-Z-LSE	2.50	3	32	2.83	3.62	4.50	5.45	6.47	7.57	8.75
			35	2.62	3.39	4.22	5.13	6.11	7.15	8.27
			38	2.41	3.15	3.95	4.81	5.74	6.74	7.79
			40	2.26	2.99	3.77	4.61	5.50	6.46	7.48
			43	2.05	2.75	3.50	4.29	5.14	6.04	7.00
PHAT300T-2F-Z-LSE	3.00	3	32	3.76	4.77	5.88	7.09	8.39	9.82	11.32
			35	3.51	4.48	5.54	6.70	7.95	9.29	10.72
			38	3.25	4.19	5.21	6.31	7.48	8.76	10.11
			40	3.07	3.99	4.97	6.04	7.19	8.41	9.70
			43	2.81	3.69	4.64	5.65	6.72	7.88	9.07
PHAT400T-2F-Z-LSE	4.00	3	32	3.75	4.96	6.34	7.86	9.54	11.36	13.32
			35	3.43	4.58	5.89	7.34	8.94	10.65	12.50
			38	3.12	4.23	5.46	6.82	8.34	9.96	11.69
			40	2.91	3.98	5.16	6.49	7.94	9.48	11.16
			43	2.61	3.62	4.74	5.98	7.32	8.80	10.35
PHAT500T-2F-Z-LSE	5.00	3	32	5.06	6.57	8.26	10.14	12.22	14.48	16.87
			35	4.68	6.11	7.73	9.53	11.48	13.59	15.85
			38	4.28	5.67	7.20	8.89	10.74	12.74	14.88
			40	4.02	5.37	6.85	8.47	10.26	12.16	14.19
			43	3.62	4.91	6.33	7.87	9.53	11.32	13.23
PHAT650T-2F-Z-LSE	6.50	3	32	6.48	8.20	10.11	12.22	14.52	16.96	19.60
			35	6.05	7.69	9.52	11.51	13.66	16.02	18.48
			38	5.61	7.18	8.90	10.79	12.83	15.03	17.35
			40	5.30	6.83	8.49	10.32	12.27	14.39	16.59
			43	4.86	6.31	7.88	9.59	11.42	13.38	15.44

Note: The rating condition is based on a suction return gas 20 °C, Subcool 0 K



R404A TECHNICAL DATA

	UNIT MODEL	COMPRESSOR					CONDENSER			RECIEVER	CONNECTION		UNIT DIMENSION				KG	dB(A) @ 3.0 mtrs
		MODEL	PH	HP	DISP (cc)	MCC (A)	FAN	TOT (Watts)	AIR VOLUME (L/s)		LIQUID	SUCTION	L	W	H	Fig		
LOW TEMP	PHAT100S-1F-BR-L	CAJ2446Z	1	1.00	26.2	8.2	1 x 300	80	490	3.0L	3/8"	1/2"	470	600	400	A	52	53
	PHAT150S-1F-BR-L	CAJ2464Z		1.50	34.5	10	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	69	56
	PHAT200S-1F-BR-L	FH2480Z		2.00	53.2	16	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	73	58
	PHAT200S-2F-BR-LSA	FH2480Z		2.00	53.2	16	2 x 350	290	1420	3.0L	3/8"	5/8"	990	665	448	B	98	60
	PHAT250S-2F-BR-LSA	FH2511Z		2.50	74.2	24	2 x 350	290	1420	4.0L	3/8"	7/8"	990	665	448	B	99	60
	PHAT200T-1F-BR-L	TFH2480Z	3	2.00	53.2	4.8	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	75	58
	PHAT200T-2F-BR-LSAE	TFH2480Z		2.00	53.2	4.8	2 x 350	290	1420	3.0L	3/8"	5/8"	990	665	448	B	101	60
	PHAT250T-1F-BR-L	TFH2511Z		2.50	74.2	7.2	1 x 400	260	930	4.0L	3/8"	7/8"	720	610	550	A	82	63
	PHAT250T-2F-BR-LSAE	TFH2511Z		2.50	74.2	7.2	2 x 350	290	1420	4.0L	3/8"	7/8"	990	665	448	B	101	61
	PHAT400T-2F-BR-LSAE	TAG2516Z		4.00	113	9.4	2 x 350	290	1460	6.0L	1/2"	7/8"	990	665	448	B	115	62
MEDIUM TEMP	PHAT550T-2F-BR-LSAE	TAG2522Z		5.50	135	13.4	2 x 400	520	1500	6.0L	1/2"	1-1/8"	1000	730	652	B	129	65
	PHAT100S-1F-Z-L	CAJ9510Z	1	1.00	18.3	8.4	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	59	51
	RHAT118S-1F-Z-L	CAJ9513Z		1.18	24.2	11.3	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	59	57
	PHAT125S-1F-Z-L	CAJ4517Z		1.25	26	12.7	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	59	57
	PHAT150S-1F-Z-L	CAJ4519Z		1.50	34.5	15.2	1 x 400	260	930	3.0L	3/8"	5/8"	720	610	550	A	70	60
	PHAT200S-1F-Z-L	FH4524Z		2.00	43.5	18.1	1 x 400	260	980	4.0L	3/8"	5/8"	720	610	550	A	82	62
	PHAT200S-2F-Z-LS	FH4524Z		2.00	43.5	18.1	2 x 350	290	1420	4.0L	3/8"	5/8"	990	665	448	B	92	59
	PHAT250S-1F-Z-L	FH4531Z		2.50	56.6	26.3	1 x 400	260	980	6.0L	1/2"	7/8"	720	610	550	A	82	63
	PHAT250S-2F-Z-LS	FH4531Z		2.50	56.6	26.3	2 x 350	290	1460	6.0L	1/2"	7/8"	990	665	448	B	99	60
	PHAT200T-1F-Z-L	TFH4524Z	3	2.00	43.5	7.7	1 x 400	260	980	4.0L	3/8"	5/8"	720	610	550	A	82	62
	PHAT200T-2F-Z-LSE	TFH4524Z		2.00	43.5	7.7	2 x 350	290	1420	4.0L	3/8"	5/8"	990	665	448	B	101	59
	PHAT250T-1F-Z-L	TFH4531Z		2.50	56.6	8.2	1 x 400	260	980	6.0L	1/2"	7/8"	720	610	550	A	89	62
	PHAT250T-2F-Z-LSE	TFH4531Z		2.50	56.6	8.2	2 x 350	290	1460	6.0L	1/2"	7/8"	990	665	448	B	96	60
	PHAT300T-2F-Z-LSE	TFH4540Z		3.00	74.2	9.2	2 x 400	520	1520	6.0L	1/2"	7/8"	1000	730	652	B	113	64
	PHAT400T-2F-Z-LSE	TAG4546Z		4.00	90.2	12.1	2 x 400	520	1520	8.0L	1/2"	7/8"	1000	730	652	B	113	67
	PHAT500T-2F-Z-LSE	TAG4561Z		5.00	113	15.3	2 x 400	520	1670	8.0L	5/8"	1-1/8"	1000	730	728	B	134	67
	PHAT650T-2F-Z-LSE	TAG4573Z		6.50	135	19	2 x 400	520	1670	8.0L	5/8"	1-1/8"	1000	730	728	B	141	68

Note: All Fan 220-240V/1PH/50Hz

DIMENSIONS

FIG. A

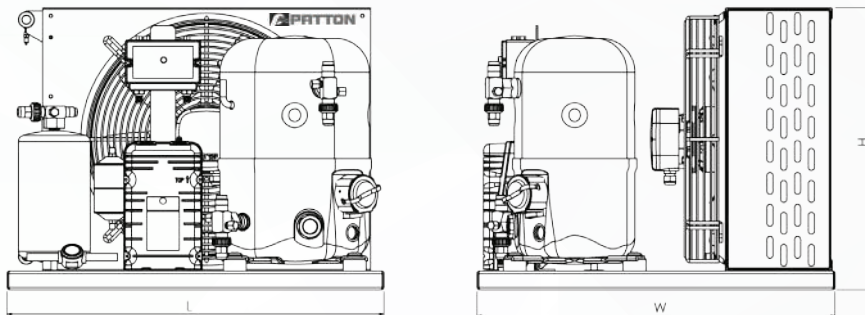
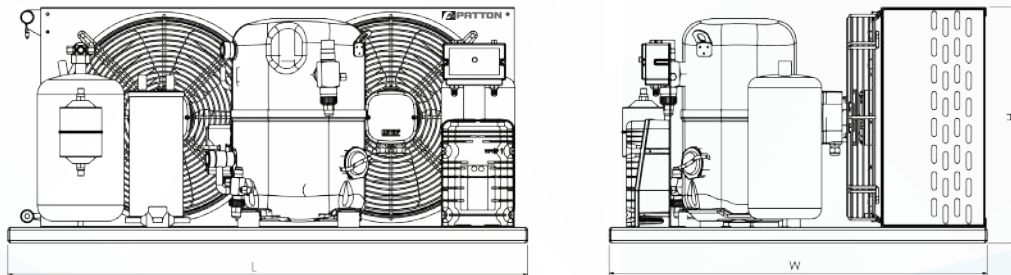


FIG. B



NTS (mm)

Products, specifications and technical data contained in this document are subject to change without prior notice.

R134A LOW TEMP



Model	Nom hp	Com ph	Ambient Temp. (°C)	Capacity (kW)						
				Evaporating temp (°C)						
				-20	-15	-10	-5	0	5	10
PHAT075S-1F-Y-L	0.75	1	32	0.75	0.99	1.28	1.60	1.96	2.36	2.80
			35	0.67	0.90	1.17	1.47	1.81	2.19	2.60
			38	0.62	0.85	1.11	1.40	1.72	2.08	2.48
			40	0.58	0.81	1.06	1.35	1.66	2.01	2.39
			43	0.53	0.75	1.00	1.27	1.57	1.91	2.27
PHAT100S-1F-Y-L	1.00	1	32	1.01	1.32	1.67	2.06	2.50	2.98	3.50
			35	0.92	1.21	1.54	1.91	2.32	2.77	3.25
			38	0.86	1.14	1.46	1.82	2.21	2.64	3.10
			40	0.82	1.10	1.41	1.76	2.14	2.55	3.00
			43	0.76	1.03	1.33	1.67	2.03	2.43	2.85
PHAT150S-1F-Y-L	1.50	1	32	1.24	1.73	2.30	2.95	3.70	4.52	5.42
			35	1.08	1.55	2.10	2.72	3.42	4.20	5.05
			38	0.99	1.45	1.97	2.57	3.25	4.00	4.82
			40	0.92	1.37	1.89	2.47	3.13	3.87	4.67
			43	0.82	1.26	1.76	2.33	2.96	3.67	4.44
PHAT150S-2F-Y-LS	1.50	1	32	1.29	1.80	2.40	3.10	3.91	4.81	5.83
			35	1.13	1.62	2.20	2.87	3.63	4.49	5.46
			38	1.03	1.51	2.07	2.72	3.46	4.29	5.23
			40	0.97	1.44	1.99	2.62	3.34	4.16	5.07
			43	0.87	1.32	1.85	2.47	3.17	3.95	4.83
PHAT200S-1F-Y-L	2.00	1	32	2.00	2.68	3.47	4.36	5.37	6.47	7.68
			35	1.79	2.44	3.19	4.03	4.97	6.01	7.15
			38	1.66	2.29	3.01	3.83	4.74	5.74	6.84
			40	1.57	2.19	2.90	3.69	4.58	5.56	6.62
			43	1.44	2.04	2.72	3.49	4.34	5.28	6.31
PHAT200S-2F-Y-LS	2.00	1	32	2.01	2.69	3.49	4.39	5.40	6.51	7.74
			35	1.80	2.45	3.21	4.05	5.01	6.07	7.21
			38	1.67	2.30	3.03	3.85	4.77	5.78	6.90
			40	1.58	2.21	2.91	3.71	4.61	5.60	6.69
			43	1.45	2.05	2.74	3.51	4.37	5.32	6.36
PHAT275T-2F-Y-LSE	2.75	3	32	2.17	3.06	4.20	5.55	7.09	8.81	10.65
			35	1.97	2.79	3.84	5.12	6.57	8.18	9.91
			38	1.85	2.63	3.64	4.86	6.25	7.81	9.47
			40	1.76	2.52	3.49	4.68	6.04	7.55	9.18
			43	1.64	2.35	3.29	4.42	5.73	7.17	8.75
PHAT300T-2F-Y-LSE	3.00	3	32	2.59	3.53	4.75	6.21	7.88	9.72	11.70
			35	2.34	3.22	4.36	5.72	7.29	9.03	10.89
			38	2.19	3.03	4.11	5.43	6.93	8.60	10.39
			40	2.10	2.90	3.96	5.24	6.70	8.33	10.08
			43	1.95	2.71	3.72	4.94	6.35	7.91	9.58
PHAT350T-2F-Y-LSE	3.50	3	32	2.88	3.79	5.07	6.69	8.61	10.77	13.16
			35	2.61	3.45	4.65	6.17	7.97	10.00	12.24
			38	2.45	3.25	4.40	5.86	7.59	9.55	11.70
			40	2.35	3.12	4.23	5.65	7.33	9.24	11.34
			43	2.18	2.92	3.98	5.33	6.95	8.79	10.80

Note: The rating condition is based on a suction return gas 20 °C, Subcool 0 K

R134A TECHNICAL DATA

	UNIT MODEL	COMPRESSOR					CONDENSER			RECIEVER	CONNECTION		UNIT DIMENSION				KG	dB(A) @ 3.0 mtrs
		MODEL	PH	HP	DISP (cc)	MCC (A)	FAN	TOT (Watts)	AIR VOLUME (L/s)		LIQUID	SUCTION	L	W	H	Fig		
MEDIUM TEMP	PHAT075S-1F-Y-L	CAJ4492Y	1	0.75	26	8.9	1 x 300	80	490	3.0L	3/8"	1/2"	470	600	400	A	51	51
	PHAT100S-1F-Y-L	CAJ4511Y		1.00	32.7	8.6	1 x 300	80	450	3.0L	3/8"	5/8"	470	600	400	A	51	52
	PHAT150S-1F-Y-L	FH4518Y		1.50	53.2	11.2	1 x 350	145	730	3.0L	3/8"	5/8"	600	570	448	A	69	58
	PHAT150S-2F-Y-LS	FH4518Y		1.50	53.2	11.2	2 x 350	145	1420	3.0L	3/8"	5/8"	990	665	448	B	92	61
	PHAT200S-1F-Y-L	FH4525Y		2.00	74.2	15.2	1 x 400	260	930	4.0L	3/8"	7/8"	720	610	550	A	80	60
	PHAT200S-2F-Y-LS	FH4525Y		2.00	74.2	15.2	2 x 350	290	1420	4.0L	3/8"	7/8"	990	665	448	B	92	62
	PHAT275T-2F-Y-LSE	TAG4534Y	3	2.75	101	10.4	2 x 350	290	1460	6.0L	1/2"	7/8"	990	665	448	B	104	62
	PHAT300T-2F-Y-LSE	TAG4537Y		3.00	113	10	2 x 350	290	1460	6.0L	1/2"	7/8"	990	665	448	B	104	63
	PHAT350T-2F-Y-LSE	TAG4543Y		3.50	124	10.7	2 x 350	290	1510	6.0L	1/2"	7/8"	990	665	550	B	115	64

Note: All Fan 220-240V/1PH/50Hz

DIMENSIONS

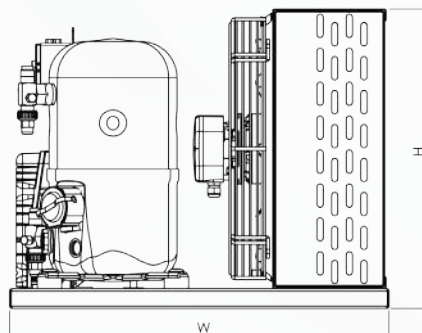
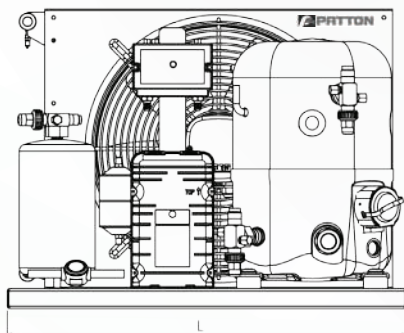


FIG. A

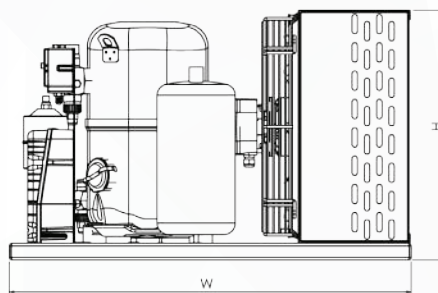
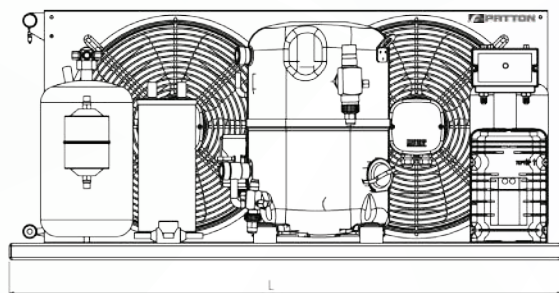


FIG. B

NTS (mm)

Products, specifications and technical data contained in this document are subject to change without prior notice.



SCMREF THAI

"Quality we care, United we are"