PNEUMATECH® INC.

MANUFACTURED
with high-quality components and innovative techniques

DESIGNED
for economical, trouble-free performance and long-life reliability

SUPPORTED
by a world-wide distribution network of compressed air management consultants

AIR COOLED AFTERCOOLERS

High Efficiency Compact Design • Heavy Duty Construction • High Performance

WORLD LEADERS IN COMPRESSED AIR & GAS SYSTEM ENGINEERING

Pneumatech's

Superior Performance and Energy Efficiency

SPECIFICATIONS

MODEL NO.	FAN SPEED SCFM (NM³/HR)	MOTOR HP	APPROX. SHIP WT. LBS. (KGS.)	STANDARD VOLTAGE	OPTIONAL VOLTAGE
PAM-2	615 (1045)	.083	25 (11)	↑	-
PAM-3	615 (1045)	.083	27 (12)		-
PAM-5	945 (1606)	.083	61 (28)	115-1-60	-
PAM-10	945 (1606)	.083	67 (30)		-
PAT-5	1375 (2337)	.25	110 (50)		↑
PAT-6	1375 (2337)	.25	120 (55)		208/230-1-60
PAT-8	1375 (2337)	.25	120 (55)		or
PAT-12	2450 (4165)	.25	140 (64)		
PAT-15	2350 (3995)	.25	145 (66)		460-3-60
PAT-24	4600 (7820)	.25 (2)	200 (91)		↓
PAT-30	4700 (7990)	.25 (2)	300 (136)		
PAT-40	2200 (3740)	1	120 (55)		↑
PAT-72	3600 (6120)	1.5	170 (77)		115/208-230-1-60
PAT-95	4700 (7990)	1.5	330 (150)		↓
PAT-120	7000 (11900)	3	450 (205)	↓	-
PAT-160	9700 (16490)	5	515 (234)	230/460-3-60	-
PAT-200	11000 (18700)	7.5	600 (273)		-
PAT-250	14000 (23800)	7.5	625 (284)		-
PAT-300	17500 (29750)	10	645 (293)		-
PAT-350	17500 (29750)	10	750 (341)		

Compressor Type
Average Discharge Temperature ° F (° C)

Rotary Screw
150 to 200° F
(66 to 93° C)

Two Stage
200° F
(93° C)

Single Stage
300° F
(149° C)

For accurate selection, measure the discharge temperature of your compressor as it may vary considerably from the above average.

PAM Series Special Features

- Horizontal or vertical air flow.
- Lightweight, may be shipped UPS.
- Ratings based on comprehensive testing.
- Attractive, durable baked enamel finish.
- Floor or suspension mounting.

Materials of Construction

Cabinet: Steel with baked enamel finish.
Core: Aluminum fins on copper tubes.
Fan: Heavy gauge aluminum with steel hub.
Motor: ODP.
Fan Guard: Steel with baked enamel finish.

PAT-5 – PAT-30 Series Special Features

- Horizontal air flow.
- Optional weatherproof junction box.
- Floor or suspension mounting.
- Optional TEFC motor(s).
- Ratings based on comprehensive testing.
- Wired for single-point external connection.

Materials of Construction

Cabinet: Galvanized steel.
Core: Aluminum fins on copper tubes.
Fan: Heavy gauge aluminum with steel hub.
Motor: ODP.
Fan Guard: Steel with baked enamel finish.

PAT-40 – PAT-350 Series Special Features

- Vertical air flow.
- High efficiency compact design.
- Optional air motor.
- Rugged heavy duty construction.
- Excellent for heat recovery.

Materials of Construction

Cabinet: Steel with baked enamel finish.
Core: Aluminum fins on aluminum tubes.
Fan: Aluminum hub, polypropylene blades.
Shroud: Painted steel.
Motor: TEFC.
Fan Guard: Steel with baked enamel finish.

Aftercoolers

CAPACITY SELECTION CHARTS

PAT AFTERCOOLER MODEL NO.

INLET TEMP	APPROACH TEMP ° F (° C)	SCFM (NM^3 / HR)												
		PAT 5	PAT 6	PAT 8	PAT 12	PAT 15	PAT 24	PAT 30	PAT 40	PAT 72	PAT 95	PAT 120	PAT 160	PAT 2
150° F (66° C)	5 (2.8)	34 (58)	42 (71)	50 (85)	81 ((138)	92 (156)	160 (272)	184 (330)	210 (357)	355 (603)	480 (816)	600 (1019)	790 (1342)	980 (1665)
	10 (5.6)	58 (99)	73 (124)	87 (148)	138 (234)	160 (272)	275 (467)	318 (540)	384 (652)	650 (1104)	871 (1480)	1090 (1852)	1440 (2447)	1790 (3041)
	15 (8.3)	79 (134)	99 (168)	119 (202)	190 (323)	220 (374)	380 (646)	440 (748)	520 (883)	890 (1512)	1178 (2001)	1475 (2506)	1950 (3313)	2420 (4112)
	20 (11)	99 (168)	125 (212)	150 (255)	235 (399)	270 (459)	425 (722)	480 (816)	605 (1028)	1025 (1741)	1360 (2311)	1710 (2905)	2260 (3840)	2800 (4757)
200° F (93° C)	5 (2.8)	25 42)	32 (54)	40 (68)	61 (104)	73 (124)	120 (204)	145 (246)	175 (297)	308 (523)	415 (705)	520 (883)	710 (1206)	870 (1478)
	10 (5.6)	43 (73)	55 (93)	69 (117)	105 (178)	125 (212)	207 (352)	250 (425)	375 (637)	560 (951)	754 (1281)	950 (1614)	1290 (2192)	1580 (2684)
	15 (8.3)	59 (100)	77 (131)	94 (160)	142 (241)	172 (292)	285 (484)	345 (586)	430 (731)	760 (1291)	1020 (1733)	1290 (2192)	1720 (2922)	2140 (3636)
	20 (11)	74 (126)	95 (161)	117 (199)	177 (301)	215 (365)	355 (603)	430 (731)	500 (850)	880 (1495)	1180 (2005)	1460 (2481)	1950 (3313)	2460 (4180)
250° F (121° C)	5 (2.8)	21 (36)	27 (46)	34 (58)	51 (87)	63 (107)	100 (170)	125 (212)	160 (272)	290 (493)	390 (663)	490 (833)	660 (1121)	820 (1393)
	10 (5.6)	36 (61)	47 (80)	59 (100)	87 (148)	110 (187)	175 (297)	217 (369)	300 (510)	545 (926)	712 (1210)	900 (1529)	1200 (2039)	1490 (2532)
	15 (8.3)	50 (85)	65 (110)	80 (136)	120 (204)	150 (255)	240 (408)	300 (510)	400 (680)	725 (1232)	950 (1614)	1200 (2039)	1600 (2718)	2000 (3398)
	20 (11)	62 (105)	81 (138)	100 (170)	150 (255)	187 (318)	300 (510)	375 (637)	464 (788)	840 (1427)	1100 (1869)	1380 (2345)	1860 (3160)	2300 (3908)
300° F (149° C)	5 (2.8)	18 (31)	24 (41)	30 (51)	43 (73)	55 (93)	84 (143)	110 (187)	135 (229)	245 (416)	320 (544)	405 (688)	530 (900)	660 (1121)
	10 (5.6)	31 (53)	41 (70)	52 (88)	75 (127)	95 (161)	145 (246)	190 (323)	250 (425)	450 (765)	588 (999)	735 (1249)	965 (1640)	1210 (2056)
	15 (8.3)	42 (71)	57 (97)	71 (121)	102 (173)	130 (221)	204 (347)	257 (437)	340 (578)	605 (1028)	785 (1334)	980 (1665)	1290 (2192)	1595 (2710)
	20 (11)	52 88)	71 (121)	89 (151)	127 (216)	160 (272)	250 (425)	320 (544)	396 (673)	701 (1191)	910 (1546)	1130 (1920)	1480 (2515)	1840 (3126)
350° F (177° C)	5 (2.8)	16 (27)	22 (37)	28 (48)	40 (68)	50 (85)	78 (133)	100 (170)	125 (212)	225 (382)	280 (476)	355 (603)	460 (782)	572 (972)
	10 (5.6)	27 (46)	37 (63)	47 (80)	69 (117)	86 (146)	135 (229)	175 (297)	235 (399)	410 (697)	520 (883)	650 (1104)	840 (1427)	1040 (1767)
	15 (8.3)	38 ((65)	52 (88)	65 (110)	94 (160)	120 (204)	185 (314)	240 (408)	305 (518)	540 (917)	690 (1172)	865 (1470)	1135 (1928)	1400 (2379)
	20 (11)	47 (80)	65 (110)	82 (139)	116 (197)	148 (251)	231 (392)	300 (510)	355 (603)	625 (1062)	780 (1325)	990 (1682)	1300 (2209)	1610 (2735)

How to Select Your Pneumatech Aftercooler

1. Determine the compressed air temperature to enter the Aftercooler.
2. Find the desired approach temperature.
   a) See capacities chart to inlet temperature.
   b) Next go to approach temperature corresponding to the inlet temperature.
   c) Read from left to right until you reach the required capacity.
   d) From the above capacity value, read upward to find the model number you need.

Selection Example

Two stage compressor with 77 SCFM (131 NM^3/HR) output.

Discharge temperature of compressed air is 250° F (121° C).

Desired approach temperature is 15° F (8.3° C).

Solution:

1. See capacity chart, first column from the left and read down to 250° F (121° C).
2. To the right of 250° F read the desired approach temperature, in this case 15° F (8.3° C).
3. From the 15° F (8.3° C) proceed reading horizontally to the right until you reach 77 SCFM (131 NM^3/HR) or nearest larger value. In this case we find 80 SCFM (136 NM^3/HR).
4. From the 80 SCFM (136 NM^3/HR), read vertically upward to find the proper Aftercooler. In this case a PAT-8.
5. Specify the voltage requirement. (See specification table)

PAT 250	PAT 300	PAT 350
1220 (2073) 2220 (3772) 3000 (5097) 3470 (5896)	1450 (2464) 2650 (4502) 3580 (6082) 4120 (7000)	1680 (2854) 3064 (5206) 4140 (7034) 4800 (8155)
1090 (1852) 1980 (3364) 2680 (4553) 3100 (5267)	1295 (2200) 2360 (4010) 3200 (5437) 3710 (6303)	1530 (2599) 2785 (4732) 3760 (6388) 4320 (7340)
1035 (1758) 1880 (3194)	1243 (2112) 2260 (3840)	1460 (2481) 2660 (4519)
2500 (4248)	3000 (5097)	3500 (5947)
2870 (4876)	3450 (5862)	4015 (6821)
784 (1332) 1426 (2423) 1980 (3364) 2270 (3857)	985 (1672) 1794 (3048) 2360 (4010) 2715 (4613)	1150 (1954) 2090 (3551) 2760 (4689) 3200 (5437)
705 (1198) 1290 (2192) 1725 (2931) 1980 (3364)	840 (1427) 1530 (2599) 2040 (3466) 2350 (3993)	950 (1614) 1740 (2956) 2350 (3993) 2700 (4587)

PAM AFTERCOOLER MODEL NO.

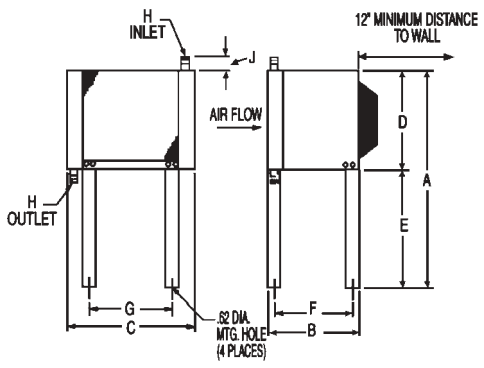
INLET TEMP	APPROACH TEMP ° F (° C)	PAM 2 SCFM (NM^3 / HR)	PAM 3 SCFM (NM^3 / HR)	PAM 5 SCFM (NM^3 / HR)	PAM 10 SCFM (NM^3 / HR)
150° F (66° C)	5 (2.8)	17 (29)	29 (49)	43 (73)	95 (161)
	10 (5.6)	35 (59)	43 (73)	72 (122)	125 (212)
	15 (8.3)	35 (59)	43 (73)	72 (122)	125 (212)
	20 (11)	35 (59)	43 (73)	72 (122)	125 (212)
200° F (93° C)	5 (2.8)	11 (19)	17 (29)	28 (48)	66 (112)
	10 (5.6)	22 (37)	36 (61)	50 (85)	111 (189)
	15 (8.3)	35 (59)	43 (73)	70 (119)	125 (212)
	20 (11)	35 (59)	43 (73)	72 (122)	125 (212)
250° F (121° C)	5 (2.8)	8 (14)	12 (20)	22 (37)	52 (88)
	10 (5.6)	16 (27)	27 (46)	35 (59)	88 (150)
	15 (8.3)	20 (34)	35 (59)	50 (85)	100 (170)
	20 (11)	35 (59)	42 (71)	70 (119)	125 (212)
300° F (149° C)	5 (2.8)	6 (10)	10 (17)	18 (31)	44 (75)
	10 (5.6)	12 (20)	20 (34)	32 (54)	74 (126)
	15 (8.3)	19 (32)	31 (53)	45 (76)	100 (170)
	20 (11)	26 (44)	42 (71)	57 (97)	125 (212)
350° F (177° C)	5 (2.8)	5 (8)	8 (14)	15 (25)	38 (65)
	10 (5.6)	10 (17)	16 (27)	28 (48)	64 (109)
	15 (8.3)	15 (25)	26 (44)	39 (66)	86 (146)
	20 (11)	21 (35)	35 (59)	50 (85)	108 (183)

Pressure and Temperature Rating for all Models:

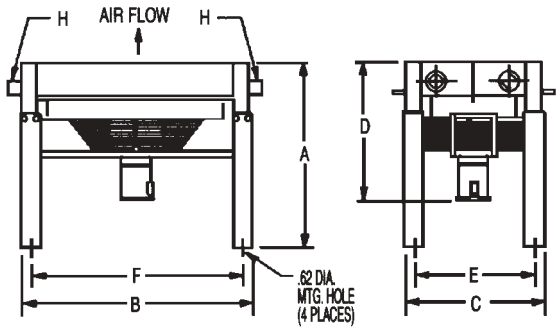
Maximum operating pressure: 250 PSIG (17.2 BAR)
Maximum operating temperature: 350° F (177° C)

Dimensions

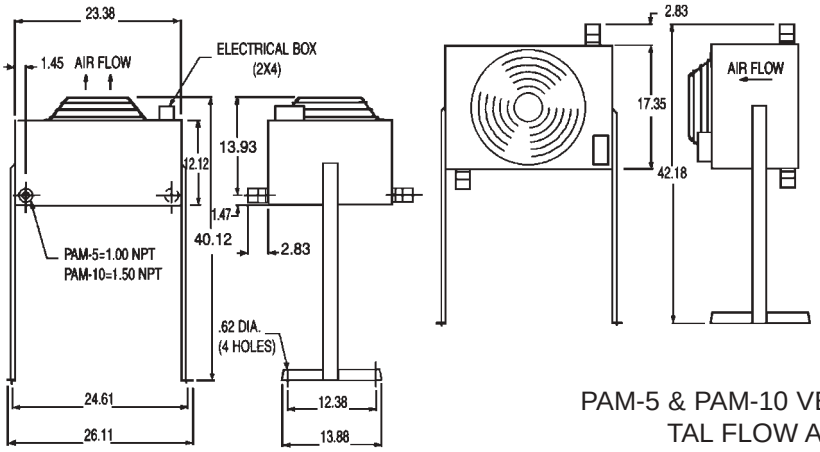
MODEL #	INCHES (mm) A	B	C	D	E	F	G	H (NPT)	J
PAT-5	46.50 (1181)	14.75 (375)	30.50 (775)	22.50 (571)	24.00 (610)	10.75 (273)	19.09 (485)	1.00 (25)	4.00 (102)
PAT-6	46.50 (1181)	14.75 (375)	30.50 (775)	22.50 (571)	24.00 (610)	10.75 (273)	19.09 (485)	1.50 (38)	4.00 (102)
PAT-8	46.50 (1181)	14.75 (375)	30.50 (775)	22.50 (571)	24.00 (610)	10.75 (273)	19.09 (485)	1.50 (38)	4.00 (102)
PAT-12	46.50 (1181)	14.75 (375)	43.50 (1105)	22.50 (571)	24.00 (610)	10.75 (273)	32.09 (815)	1.50 (38)	4.00 (102)
PAT-15	46.50 (1181)	14.75 (375)	43.50 (1105)	22.50 (571)	24.00 (610)	10.75 (273)	32.09 (815)	1.50 (38)	4.00 (102)
PAT-24	49.50 (1257)	14.75 (375)	47.63 (1210)	22.50 (571)	24.00 (610)	10.75 (273)	32.09 (815)	2.00 (51)	4.00 (102)
PAT-30	55.50 (1410)	14.75 (375)	51.68 (1313)	31.50 (800)	24.00 (610)	10.75 (273)	36.09 (917)	2.00 (51)	4.00 (102)
PAT-40	34.20 (869)	22.68 (576)	17.42 (442)	18.01 (457)	13.42 (341)	18.68 (474)	- -	2.00 (51)	- -
PAT-72	34.20 (869)	30.56 (776)	21.84 (555)	18.01 (457)	17.84 (453)	26.56 (649)	- -	2.00 (51)	- -
PAT-95	34.20 (869)	37.24 (946)	26.25 (667)	22.76 (578)	22.25 (565)	33.24 (844)	- -	3.00 (76)	- -
PAT-120	36.01 (914)	41.19 (1046)	26.25 (667)	25.07 (637)	22.25 (565)	37.19 (945)	- -	3.00 (76)	- -
PAT-160	36.01 (914)	41.19 (1046)	34.36 (873)	25.95 (659)	30.36 (771)	37.19 (945)	- -	3.00 (76)	- -
PAT-200	36.01 (914)	51.04 (1296)	37.35 (949)	27.57 (700)	33.35 (847)	47.04 (1195)	- -	4.00 (102)	- -
PAT-250	36.01 (914)	49.07 (1246)	43.08 (1097)	28.01 (711)	39.18 (995)	45.07 (1145)	- -	4.00 (102)	- -
PAT-300	36.01 (914)	51.04 (1296)	52.00 (1321)	29.17 (741)	48.00 (1219)	47.04 (1195)	- -	4.00 (102)	- -
PAT-350	36.01 (914)	51.04 (1296)	55.78 (1417)	29.17 (741)	51.78 (1315)	47.04 (1195)	- -	4.00 (102)	- -



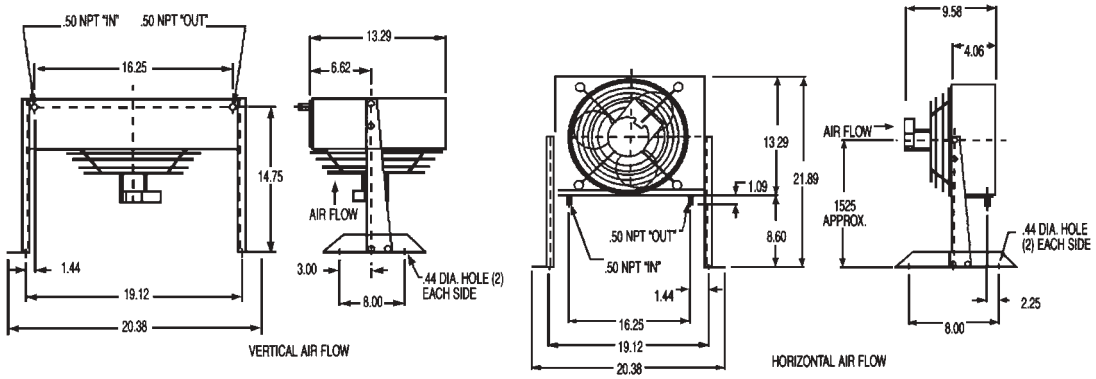
PAT-5 THRU PAT-30 AFTERCOOLER



PAT-40 THRU PAT-350 AFTERCOOLER



PAM-5 & PAM-10 VERTICAL & HORIZONTAL FLOW AFTERCOOLER



PAM-2 & PAM-3 VERTICAL & HORIZONTAL FLOW AFTERCOOLER

Maintenance:

Periodic cleaning of the fins with compressed air is necessary to remove dirt and dust accumulation.
Check the automatic drain on the separator (sold separately) periodically.
If the inside of the tubes need to be cleaned of oil and carbon, use a chlorinated solvent. Do not use acids.

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