

Cools compressed air to safe, usable temperatures

Preconditions air for further filtering and drying

Hankison air-cooled aftercoolers use ambient air to cool the hot air leaving an air compressor (typically 180°F to 350°F [82°C to 177°C]) to usable levels (100°F to 120°F [38°C to 49°C]). As the air cools about 70% of the water vapor present condenses into liquid water which can then be removed with a separator.

Economical, air-cooled aftercoolers use ambient air to remove heat from the compressed air. Aftercoolers can be sized to cool the compressed air to within 5° to 20°F (3° to 11°C) of the ambient air temperature.

Aftercoolers can also be installed so that normally wasted heat can be reclaimed and used (such as for space heating).

Features

Cooling coils

- Designed to maximize heat transfer with the minimum pressure drop (typically under 3 psi [0.21 kgf/cm²])
- ACHV and ACH models - corrugated aluminum fins and copper tubes increase heat transfer rate; heavy gauge aluminum resists external damage
- ACV models - durable aluminum plate core design saves space, minimizes energy usage
- Tube spacing resists fouling
- No exposed headers or return bends

Fans

- Fan blades
 - ACHV and ACH models - heavy gauge aluminum blades on steel hub
 - ACV models - polypropylene blades on aluminum hub
 - Blades balanced for vibration free operation
- Fan motors
 - Heavy duty bearings
 - Fan blade guard standard

ACHV models

- Sizes from 20 to 100 scfm*
- May be mounted for horizontal or vertical air flow
- Lightweight, UPS shippable
- May be mounted on floor or suspended

ACH models

- Sizes from 35 to 300 scfm*
- Horizontal air flow
- Galvanized steel cabinet
- May be mounted on floor or suspended

ACV models

- Sizes from 400 to 3500 scfm*
- Vertical air flow
- Unitized, aluminum core heat exchanger
- TEFC fan motors

Options

- Weatherproof junction box
- Various motor voltages and styles
- Air motors (ACV models)
- Vibration dampeners
- Separators

* at 250°F [121°C] inlet and 15°F [13°C] approach



HANKISON



AIR-COOLED

AFTERCOOLERS

Capacity Selection Chart

scfm (for 50 Hz operation multiply scfm by 0.90)

Inlet Temp.	150°F 66°C				200°F 93°C				250°F 121°C				300°F 149°C				350°F 177°C			
	Approach F° Temp. C°	5	10	15	20	5	10	15	20	5	10	15	20	5	10	15	20	5	10	15
ACHV-20	17	35*	35*	35*	11	22	35	35*	8	16	20	35	6	12	19	26	5	10	15	21
ACHV-35	29	43*	43*	43*	17	36	43*	43*	12	27	35	42*	10	20	31	42*	8	16	26	35
ACHV-50	43	72	72*	72*	28	50	70	72*	22	35	50	70	18	32	45	57	15	28	39	50
ACHV-100	95	125*	125*	125*	66	111	125*	125*	52	88	100	125*	44	74	100	125	38	64	86	108
ACH-35	25	42	58	73	18	31	43	53	15	25	35	44	13	22	30	37	11	19	26	32
ACH-50	34	58	79	99	25	43	59	74	21	36	50	62	18	31	42	52	16	27	38	47
ACH-65	42	73	99	125	32	55	77	95	27	47	65	81	24	41	57	71	22	37	52	65
ACH-80	50	87	119	150	40	69	94	117	34	59	80	100	30	52	71	89	28	47	65	82
ACH-100	60	102	140	177	48	81	112	140	43	73	100	124	38	64	87	110	34	59	81	100
ACH-120	81	138	190	235	61	105	142	177	51	87	120	150	43	75	102	127	40	69	94	116
ACH-150	92	160	220	270	73	125	172	215	63	110	150	187	55	95	130	160	50	86	120	148
ACH-240	160	275	380	425*	120	207	285	355	100	175	240	300	84	145	204	250	78	135	185	231
ACH-300	184	318	440	480*	145	250	345	430	125	217	300	375	110	190	257	320	100	175	240	300
ACV-400	210	384	520	605	175	375	430	500	160	300	400	464	135	250	340	396	125	235	305	355
ACV-725	355	650	890	1025	308	560	760	880	290	545	725	840	245	450	605	701	225	410	540	625
ACV-950	480	871	1178	1360	415	754	1020	1180	390	712	950	1100	320	588	785	910	280	520	690	780
ACV-1200	600	1090	1475	1710	520	950	1290	1460	490	900	1200	1380	405	735	980	1130	355	650	865	990
ACV-1600	790	1440	1950	2260	710	1290	1720	1950	660	1200	1600	1860	530	965	1290	1480	460	840	1135	1300
ACV-2000	980	1790	2420	2800	870	1580	2140	2460	820	1490	2000	2300	660	1210	1595	1840	572	1040	1400	1610
ACV-2500	1220	2220	3000	3470	1090	1980	2680	3100	1035	1880	2500	2870	784	1426	1980	2270	705	1290	1725	1980
ACV-3000	1450	2650	3580	4120	1295	2360	3200	3710	1243	2260	3000	3450	985	1794	2360	2715	840	1530	2040	2350
ACV-3500	1680	3064	4140	4800	1530	2785	3760	4320	1460	2660	3500	4015	1150	2090	2760	3200	950	1740	2350	2700

Above specifications are based on 80 to 125 psig (5.6 to 8.8 kgf/cm²) operating pressures. Maximum pressure drop, less than 3 psi (0.21 kgf/cm²).

*Maximum ratings restricted by pressure drop, actual thermal capacities are higher.

Maximum operating pressure: 250 psig (17.6 kgf/cm²).

Maximum operating temperature: 350°F (177°C).

Model	Fan Motor Data			Dimensions (in)			Conn (NPT)	Wt (lb)
	H.P.	Type	Volts / Ph / Hz	A	B	C		
ACHV-20-V	1/12	ODP	115/1/60	15.88	20.38	13.29	0.50	25
ACHV-20-H	1/12	ODP		21.89	20.38	9.58	0.50	25
ACHV-35-V	1/12	ODP	230/1/60	15.88	20.38	13.29	0.50	27
ACHV-35-H	1/12	ODP		21.89	20.38	9.58	0.50	27
ACHV-50-V	1/12	ODP	115/1/50	40.12	26.11	17.35	1.00	61
ACHV-50-H	1/12	ODP		42.18	26.11	15.40	1.00	61
ACHV-100-V	1/12	ODP	230/1/50	40.12	26.11	17.35	1.50	67
ACHV-100-H	1/12	ODP		42.18	26.11	15.40	1.50	67
ACH-35	1/4	115V available in ODP or TEFC, all others TEFC	115/1/60	46.5	14.75	30.50	1.00	110
ACH-50	1/4		208-230/1/60	46.5	14.75	30.50	1.00	110
ACH-65	1/4		208-230/3/60	46.5	14.75	30.50	1.50	120
ACH-80	1/4		460/3/60	46.5	14.75	43.50	1.50	140
ACH-100	1/4		190-200/3/50	46.5	14.75	43.50	1.50	140
ACH-120	1/4		380-415/3/50	46.5	14.75	43.50	1.50	145
ACH-150	1/4			49.5	14.75	47.63	2.00	200
ACH-240	1/4**			55.5	14.75	51.68	2.00	300
ACH-300	1/4**							
ACV-400	1.0		TEFC	1, 2, 4	34.20	22.68	17.96	2.00
ACV-725	1.5	TEFC	1, 2, 4	34.20	30.56	22.37	2.00	170
ACV-950	1.5	TEFC	See	36.01	37.24	26.78	3.00	330
ACV-1200	3.0	TEFC	Voltage	36.01	41.19	26.78	3.00	450
ACV-1600	5.0	TEFC	Listing	36.01	41.19	34.89	3.00	515
ACV-2000	7.5	TEFC	Below	36.01	51.04	37.88	4.00	600
ACV-2500	7.5	TEFC	3, 5	36.01	49.07	43.70	4.00	625
ACV-3000	10	TEFC	3, 5	36.01	51.04	52.52	4.00	645
ACV-3500	10	TEFC	3, 5	36.01	51.04	56.30	4.00	750

* Dual Voltage - motor may be wired for either voltage shown

- 1) [115/1/60 2) [208-230/3/60 3) [230/3/60 4) [190-200-208-220/3/50 5) [190-200-208/3/50
 * [208-230/1/60 * [460/3/60 * [460/3/60 * [380-400-416-440/3/50 * [380-400-416/3/50

** Models ACH-240 and ACH-300 have 2 fan motors

ODP - Open Drip Proof TEFC - Totally Enclosed Fan Cooled

