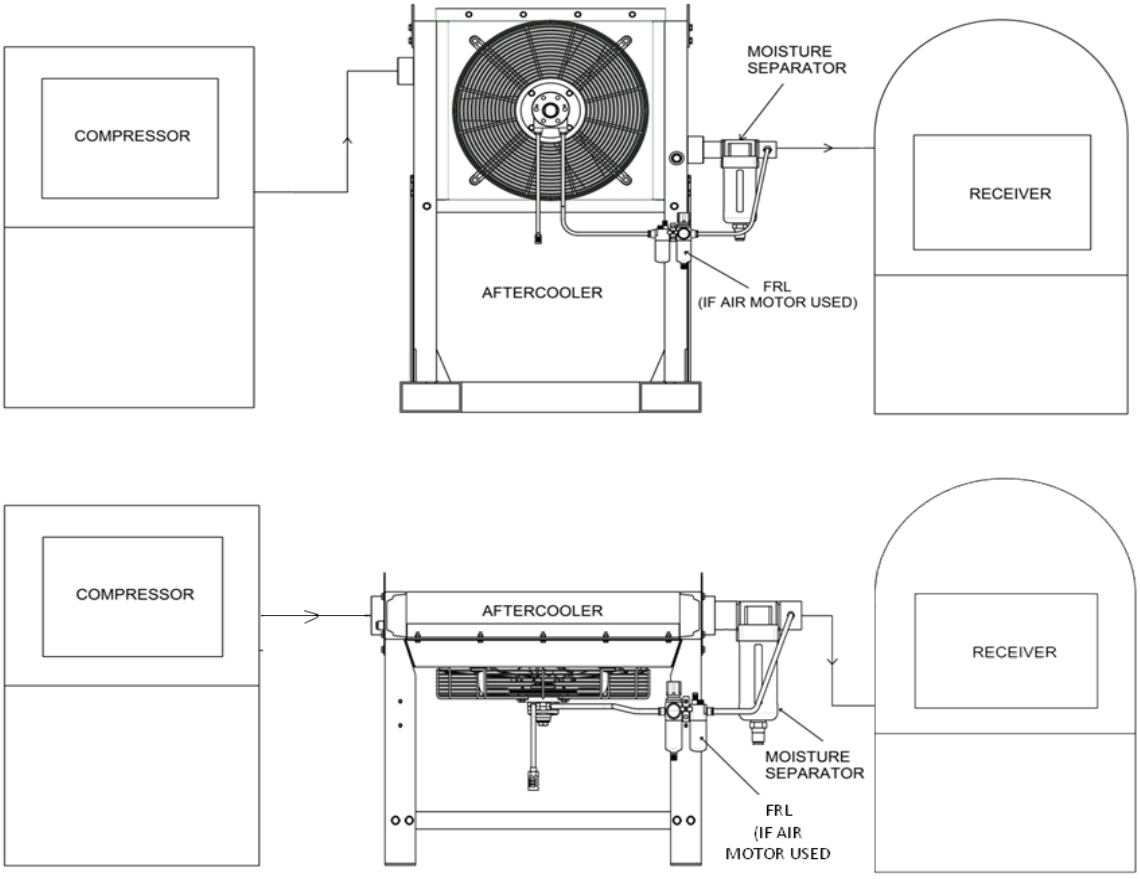
STANHEX

AX SERIES

HOW TO ORDER

Series	Rated CFM	Orientation	Motor	FRL	Moisture Separator	Custom
AX	125	H	0	0	0	0
Air - Air Cooler Series	125, 200, 230, 400, 600, 725, 950, 1200, 1600, 2000, 2500, 3000, 3500	H - Horizontal V - Vertical	0 - Only Cooler 1 - Cooler with Structure 2 - With Electric Motor 3 - With Air Motor	0 - Without FRL unit 1 - With FRL unit	0 – Without moisture separator 1 – With moisture separator	0 – Standard X – Special

RECOMMENDED INSTALLATION



COOLER SELECTION

❖ OPTION 1

To select the appropriate model, simply determine compressor horse power & select the model from the chart.

Rotary Compressor		
Air Compressor Horsepower (HP)	Internal Air Flow Max. CFM	Recommended AX model
20	120	AX-125
25 - 40	240	AX-230
50 - 75	420	AX-400
100 - 125	750	AX-725
150 - 200	1150	AX-1200
225 - 350	2100	AX-2000
400- 500	2950	AX-3000
550 - 700	3350	AX-3500
750 - 850	4250	---

Piston Compressor		
Air Compressor Horsepower (HP)	Internal Air Flow Max. CFM	Recommended AX model
20	108	AX-125
25 - 30	162	AX-200
40 - 70	380	AX-400
75 - 100	550	AX-600
125 - 200	1100	AX-1200
225 - 300	1620	AX-1600
350 - 400	2160	AX-2500
500- 600	2970	AX-3000
700- 800	3600	AX-3500

The above recommendations are based on the following :

Heat dissipation (Aftercooler) = compressor horsepower x 1.15 (motor service factor)
x 0.17 (this assumes 17% of input power is rejected to heat)
15°F (8.5°c) Approach Temperature = Aftercooler air outlet temp - ambient air temp
Flows: compressor horsepower x (4.5 to 5) = SCFM Air Flow

❖ OPTION 2

1. Decide the air inlet temperature to the aftercooler
2. Check ambient temperature
3. Decide approach temperature = aftercooler outlet temp - ambient temp
4. Find airflow with rescept to inlet temperature & approach temperature & decide correct model

CAPACITY SELECTION CHART

Inlet Temp		Approach Temp		SCFM						
°F	°C	°F	°C	AX-125	AX-200	AX-230	AX-400	AX-600	AX-725	AX-950
150	66	5	3.0	61	98	112	195	293	354	464
		10	5.5	114	183	210	366	549	663	869
		15	8.5	153	244	281	488	732	885	1159
		20	11.0	175	281	323	561	842	1018	1333
200	93	5	3.0	54	86	98	171	257	310	407
		10	5.5	100	161	185	321	482	582	762
		15	8.5	134	214	246	428	642	776	1017
		20	11.0	154	246	283	492	738	892	1170
250	121	5	3.0	50	80	92	160	240	290	380
		10	5.5	94	150	173	300	450	544	713
		15	8.5	125	200	230	400	600	725	950
		20	11.0	144	230	265	460	690	834	1093
300	149	5	3.0	41	65	75	130	194	235	308
		10	5.5	76	122	140	243	365	440	577
		15	8.5	101	162	186	324	486	587	770
		20	11.0	116	186	214	373	559	675	886
350	177	5	3.0	36	57	65	114	170	206	270
		10	5.5	67	107	122	213	320	386	506
		15	8.5	89	142	163	284	426	515	675
		20	11.0	102	163	187	327	490	592	776
Typical dry heatload kW at 250°F-Inlet, 15°F Approach				4	6	7	13	19	23	31

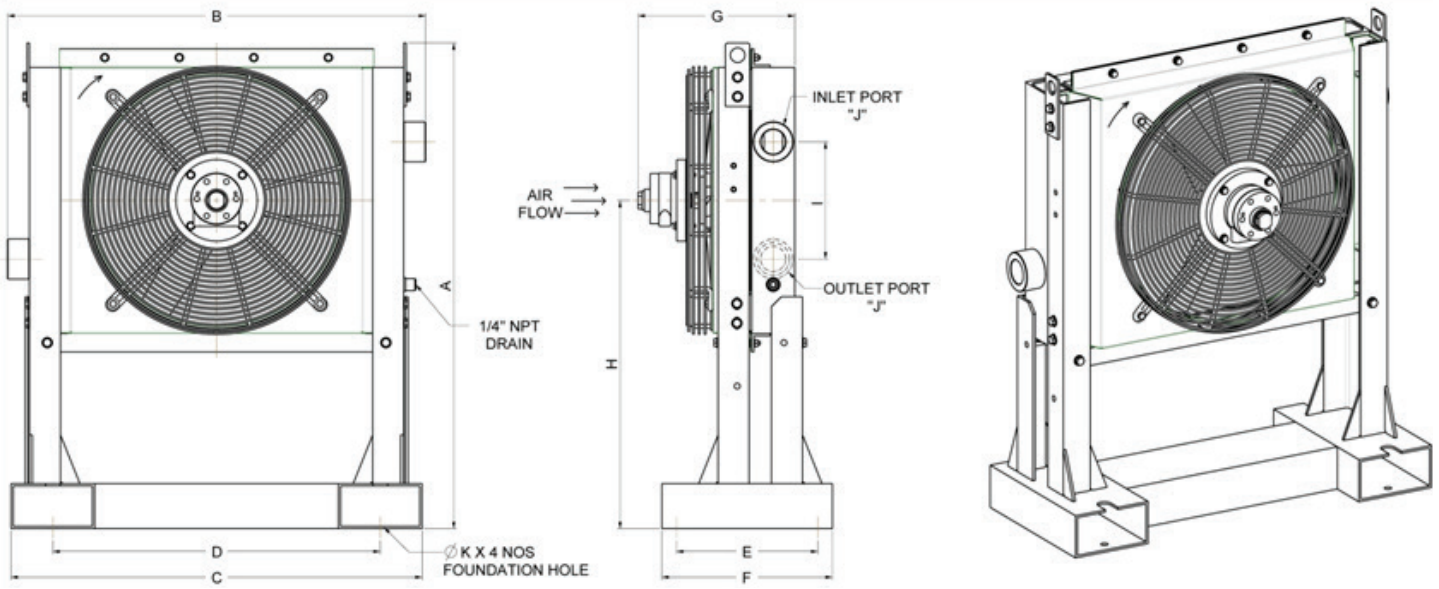
Inlet Temp		Approach Temp		SCFM					
°F	°C	°F	°C	AX-1200	AX-1600	AX-2000	AX-2500	AX-3000	AX-3500
150	66	5	3.0	586	781	976	1220	1464	1708
		10	5.5	1098	1464	1830	2288	2745	3203
		15	8.5	1464	1952	2440	3050	3660	4270
		20	11.0	1684	2245	2806	3508	4209	4911
200	93	5	3.0	514	685	856	1070	1284	1498
		10	5.5	963	1284	1605	2006	2408	2809
		15	8.5	1284	1712	2140	2675	3210	3745
		20	11.0	1477	1969	2461	3076	3692	4307
250	121	5	3.0	480	640	800	1000	1200	1400
		10	5.5	900	1200	1500	1875	2250	2625
		15	8.5	1200	1600	2000	2500	3000	3500
		20	11.0	1380	1840	2300	2875	3450	4025
300	149	5	3.0	389	518	648	810	972	1134
		10	5.5	729	972	1215	1519	1823	2126
		15	8.5	972	1296	1620	2025	2430	2835
		20	11.0	1118	1490	1863	2329	2795	3260
350	177	5	3.0	341	454	568	710	852	994
		10	5.5	639	852	1065	1331	1598	1864
		15	8.5	852	1136	1420	1775	2130	2485
		20	11.0	980	1306	1633	2041	2450	2858
Typical dry heat load kW at 250°F-Inlet, 15°F Approach				39	52	65	81	97	110

Notes:

I. Maximum pressure drop = 0.3 bar / 4.4 Psi

II. Capacity based on air at 38°C/ 100°F & 1 bar/14.7 Psi at compressor inlet

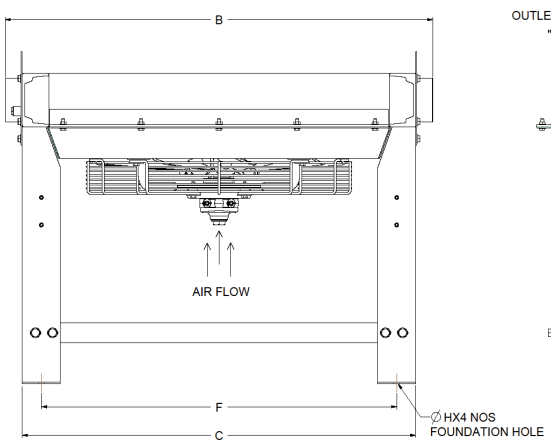
AX-V COOLERS

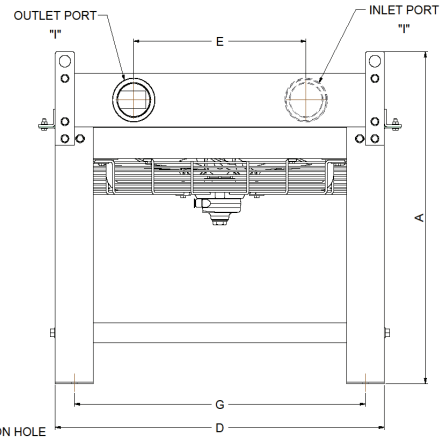


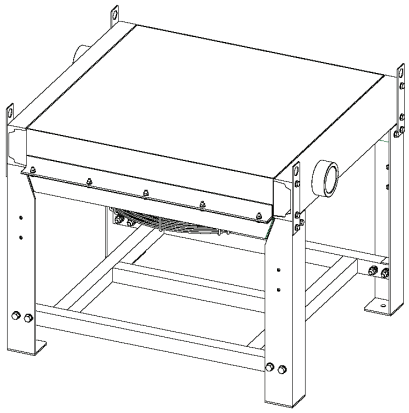
DIMENSIONS

Model/Dim	A	B	C	D	E	F	G		H	I	J	K
							Air Motor	Electric Motor				
AX 125 -V	775	435	465	293	290	350	299	375	613	245	1.5" NPT	15
AX 200 -V	829	537	555	383	290	350	306	398	639	299	1.5" NPT	15
AX 230 -V	865	562	580	408	290	350	306	398	657	335	1.5" NPT	15
AX 400 -V	883	642	632	460	290	350	331	461	666	293	2" NPT	15
AX 600 -V	955	842	832	660	290	350	341	471	702	305	2" NPT	15
AX 725 -V	991	842	832	660	440	500	382	471	720	341	2" NPT	15
AX 950 -V	1098	1030	1020	848	440	500	478	630	774	408	3" NPT	15
AX 1200 -V	1098	1120	1110	938	440	500	476	641	774	408	3" NPT	15
AX 1600 -V	1264	1120	1110	938	540	600	468	633	832	624	3" NPT	15
AX 2000 -V	1290	1447	1427	1255	690	750	520	709	795	690	4" NPT	15
AX 2500 -V	1347	1397	1377	1205	690	750	520	709	799	797	4" NPT	15
AX 3000 -V	1545	1447	1427	1255	690	750	520	747	897	995	4" NPT	15
AX 3500 -V	1725	1447	1427	1255	690	750	520	747	987	1175	4" NPT	15

AX-H COOLERS







DIMENSIONS

Model/Dim	A	B	C	D	E	F	G	H	I
AX 125 -H	700	435	385	325	245	285	225	15	1.5" NPT
AX 200 -H	700	537	475	379	299	375	279	15	1.5" NPT
AX 230 -H	700	562	500	415	335	400	315	15	1.5" NPT
AX 400 -H	800	642	552	433	293	452	333	15	2" NPT
AX 600 -H	800	842	752	505	305	652	405	15	2" NPT
AX 725 -H	800	842	752	541	341	652	441	15	2" NPT
AX 950 -H	900	1030	940	648	408	840	548	15	3" NPT
AX 1200 -H	900	1120	1030	648	408	930	548	15	3" NPT
AX 1600 -H	900	1120	1030	864	624	930	764	15	3" NPT
AX 2000 -H	960	1447	1347	990	690	1247	890	15	4" NPT
AX 2500 -H	960	1397	1297	1097	797	1197	997	15	4" NPT
AX 3000 -H	1000	1447	1347	1295	995	1247	1195	15	4" NPT
AX 3500 -H	1000	1447	1347	1475	1175	1247	1375	15	4" NPT

FAN / ELECTRIC MOTOR / AIR MOTOR DATA

Model	Fan		Electric Motor		Air Motor			Moisture Separator
	Air Flow (CFM)	Fan RPM	Voltage (V)	Power (hp)	Air Pressure to Motor (PSI)	Motor Air Consumption (CFM)	Air Motor Connection Size	
AX 125	1100	2800	415	0.25	100	30	1/4" NPT	SMS 024
AX 200	1661	2800	415	0.50	100	30	1/4" NPT	SMS 039
AX 230	1925	2800	415	0.50	100	30	1/4" NPT	SMS 043
AX 400	2281	2800	415	1.00	100	30	1/4" NPT	SMS 088
AX 600	3787	2800	415	1.00	100	30	1/4" NPT	SMS 150
AX 725	4128	2800	415	1.50	80	65	1/4" NPT	-
AX 950	6181	1440	415	3.00	80	65	1/2" NPT	--
AX 1200	6877	1440	415	5.00	100	75	1/2" NPT	-
AX 1600	9335	1440	415	5.00	100	75	1/2" NPT	-
AX 2000	14066	1440	415	7.50	100	120	2 1/2" NPT	-
AX 2500	14832	1440	415	7.50	100	120	2 1/2" NPT	-
AX 3000	18286	1440	415	10.0	100	120	2 1/2" NPT	-
AX 3500	20818	1440	415	10.0	100	120	2 1/2" NPT	-

Notes:

1) Air inlet to motor must be regulated to given pressure

2) Lubrication : To achieve optimum service life and performance of the lubricated air motors they should be supplied with 50 mm^3 of oil for each cubic metre (1000 litres) of air consumed (1 drop = 15 mm^3). Insufficient lubrication will result in accelerated vane wear and a reduction in performance.

3) Filter, regulator & lubricators are required for the air motor.

STANHEX

STANHEX, the industrial product line of Standard Radiators Pvt. Ltd., offers customised cooling solutions that integrate robust aluminium bar & plate technologies and other system peripherals to cater to performance-critical industries such as Locomotive, Renewable Energy and many others. With expertise in design, testing, product validation, and tooling, STANHEX provides its client-partners with seamless product-integration and superior customer service.

The AX Series by STANHEX is a catalogue after-cooler range used for the preparation of air and other compatible gases in industry. We pride ourselves in offering industry leading customization options. Get in touch to see how we can help.

STANHEX is a registered trademark of :
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