MINIVEIL AIR CURTAINS

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This section contains product and technical information only.
For additional information and product pricing please contact your local ECCO Supply Sales Branch.

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ASHRAE
American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.
www.ashrae.org

HRAI
Heating, Refrigeration and Air Conditioning Institute of Canada
www.hrai.ca

HARDI
Heating, Airconditioning & Refrigeration Distributors International
www.hardinet.org

SMACNA
Sheet Metal and Air Conditioning Contractors' National Association
www.smacna.org

SPIDA
Spiral Duct Manufacturers Association
www.spida.org

CIPH
Canadian Institute of Plumbing & Heating
www.ciph.com

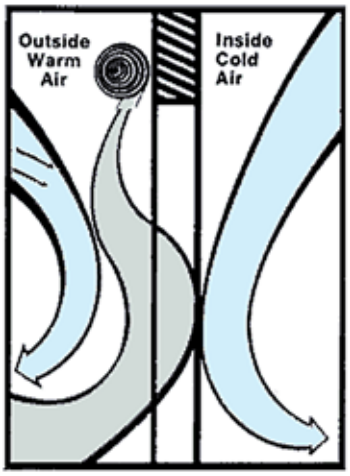
INTRODUCTION

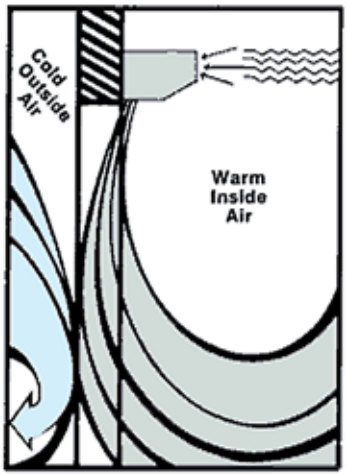
BENEFITS OF AIR CURTAINS

Miniveil Air Curtains are useful in many different types of applications, and their benefits are numerous. Some examples are:

Controls

- Energy costs
- Insects and contaminates
- Climate conditions
- Mine ventilation, fumes and humidity





Increases

- Employee comfort
- Safety (unrestricted vision)
- Productivity
- Useful space

Decreases

- Employee absenteeism
- Door maintenance
- Product spoilage

They Also Successfully

- Recover stratified heat
- Provide outside make-up air
- Retain heat in ovens
- Control air movements within the building

HOW TO SELECT AN AIR CURTAIN

There are a few factors to consider when choosing the proper Air Curtain for your application:

- The size of the door
- The type of application
- Outdoor climate conditions
- Indoor climate conditions
- Is there excessive negative pressure in the building? (due to excessive exhaust, etc.)
- Are there any special conditions that must be met? (i.e. location of workers in relation to the door.)
- Are there any obstacles on or around the door that must be compensated for?
- Do you require a heated Air Curtain?
- The amount of protection you require

INDUSTRIAL AIR CURTAIN SYSTEMS

Industrial Air Curtain systems are selected based upon the size of your door, possible negative pressure (excessive exhaust), local climate conditions, local wind conditions and the particular plant/production layout of your plant.

Miniveil Air Curtains built for this category and application are, for safety and health reasons and to ensure a long life, built with the casing and air deflectors entirely of metal. Plastic parts are not used so that in case of a fire they do not contribute to the smoke and fumes.

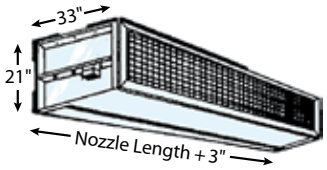
These Air Curtains are mainly used in Industrial plants and factories.

Models

- CFA Ambient
- CFA Steam/Hot Water
- CFA Electric
- CFC Ambient
- CFC Steam/Hot Water
- CFC Electric
- EWD Ambient
- EWD Steam/Hot Water
- EWD Electric

CFA AMBIENT

MODEL CFA	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)
1-60	60	4,500	6,800	3	415
1-72	72	4,500	8,100	3	445
1-96	96	4,500	10,800	5	585
1-120	120	4,500	13,200	5	775
1-144	144	4,500	16,300	7.5	960
2-168	168	4,500	19,000	3+5	1,120
2-192	192	4,500	21,700	5+5	1,280
2-216	216	4,500	23,700	5+5	1,530
2-240	240	4,500	26,400	5+5	1,700
2-264	264	4,500	29,000	5+7.5	1,870
2-288	288	4,500	31,700	7.5+7.5	2,040



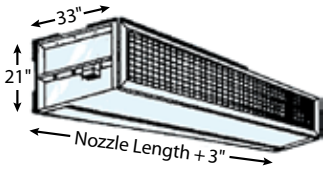
Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz.

Sound Level Measured 10' from unit in free field: CFA, 68 dbA.

CFA STEAM/HOT WATER

MODEL CFA	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)	STEAM (MBTU/HR)	STEAM TEMP RISE (°F)	HOT WATER (MBTU/HR)	H. W. TEMP RISE (°F)
1-60	60	4,000	6,400	3	415	312	45	167	24
1-72	72	4,000	7,700	3	445	376	45	200	24
1-96	96	4,000	12,400	5	585	498	45	266	24
1-120	120	4,000	12,400	5	775	605	45	323	24
1-144	144	4,000	15,300	7.5	960	747	45	398	24
2-168	168	4,000	17,800	3+5	1,120	871	45	464	24
2-192	192	4,000	20,400	5+5	1,280	996	45	531	24
2-216	216	4,000	22,320	5+5	1,530	1,089	45	581	24
2-240	240	4,000	24,800	5+5	1,700	1,210	45	646	24
2-264	264	4,000	27,290	5+7.5	1,870	1,331	45	711	24
2-288	288	4,000	28,760	7.5+7.5	2,040	1,452	45	775	24

Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz. Sound Level Measured 10' from unit in free field: CFA, 73dbA. Rating based on 70°F entering air, 5 p.s.i. steam or 180°F hot water.



CFA ELECTRIC

MODEL CFA	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)	POWER (KW)	TEMP RISE (°F)
1-60	60	4,500	6,800	3	510	68	30
1-72	72	4,500	8,100	3	550	81	30
1-96	96	4,500	10,800	5	720	108	30
1-120	120	4,500	13,200	5	935	132	30
1-144	144	4,500	16,300	7.5	1,155	163	30
2-168	168	4,500	19,000	3+5	1,350	190	30
2-192	192	4,500	21,700	5+5	1,540	217	30
2-216	216	4,500	23,700	5+5	1,832	237	30
2-240	240	4,500	26,400	5+5	2,025	264	30
2-264	264	4,500	29,000	5+7.5	2,217	290	30
2-288	288	4,500	31,700	7.5+7.5	2,510	317	30

Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz.
Sound Level Measured 10' from unit in free field: CFA, 68 dbA.

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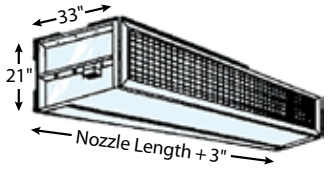
CFC AMBIENT

MODEL CFC	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)
1-60	60	6,500	9,800	5	445
1-72	72	6,500	11,700	5	475
1-96	96	6,500	15,700	7.5	615
1-120	120	6,500	19,100	7.5	820
1-144	144	6,500	23,500	10	1,020
2-168	168	6,500	27,500	5+7.5	1,190
2-192	192	6,500	31,000	7.5+7.5	1,360
2-216	216	6,500	34,300	7.5+7.5	1,585
2-240	240	6,500	38,200	7.5+7.5	1,760
2-264	264	6,500	42,000	7.5+10	1,936
2-288	288	6,500	45,800	10+10	2,200

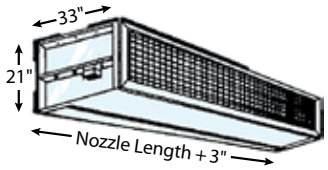


Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz.
Sound Level Measured 10' from unit in free field: CFC, 73 dbA.

CFC STEAM/HOT WATER

MODEL CFC	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)	STEAM (MBTU/HR)	STEAM TEMP RISE (°F)	HOT WATER (MBTU/HR)	H. W. TEMP RISE (°F)
1-60	60	6,500	9,800	5	445	365	35	188	18
1-72	72	6,500	11,700	5	475	437	35	225	18
1-96	96	6,500	15,700	7.5	615	581	35	299	18
1-120	120	6,500	19,100	7.5	820	710	35	365	18
1-144	144	6,500	23,500	10	1,020	873	35	499	18
2-168	168	6,500	27,500	5+7.5	1,190	1,018	35	582	18
2-192	192	6,500	31,000	7.5+7.5	1,360	1,164	35	665	18
2-216	216	6,500	34,300	7.5+7.5	1,585	1,280	35	670	18
2-240	240	6,500	38,200	7.5+7.5	1,760	1,420	35	730	18
2-264	264	6,500	42,000	7.5+10	1,936	1,560	35	803	18
2-288	288	6,500	45,800	10+10	2,200	1,700	35	880	18

Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz. Sound Level Measured 10' from unit in free field: CFC, 73 dbA. Rating based on 70°F entering air, 5 p.s.i. steam or 180° F hot water.



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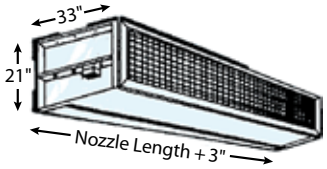
CFC ELECTRIC

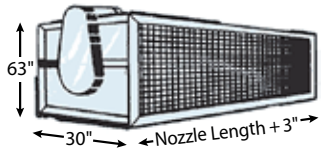
MODEL CFC	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)	POWER (KW)	TEMP RISE (F)
1-60	60	6,500	9,800	5	540	98	30
1-72	72	6,500	11,700	5	580	117	30
1-96	96	6,500	15,700	7.5	750	157	30
1-120	120	6,500	19,100	7.5	980	191	30
1-144	144	6,500	23,500	10	1,215	235	30
2-168	168	6,500	27,500	5+7.5	1,420	274	30
2-192	192	6,500	31,000	7.5+7.5	1,620	313	30
2-216	216	6,500	34,300	7.5+7.5	1,920	350	30
2-240	240	6,500	38,200	7.5+7.5	2,150	390	30
2-264	264	6,500	42,000	7.5+10	2,340	430	30
2-288	288	6,500	45,800	10+10	2,550	470	30



Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz.
Sound Level Measured 10' from unit in free field: CFC, 73 dbA.

EWD AMBIENT

MODEL EWD	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	NET WEIGHT (LBS)
1-96	96	6,000	25,000	20	1,000
1-108	108	6,000	28,000	20	1,050
1-120	120	6,000	29,300	25	1,125
1-144	144	6,000	36,000	30	1,350
1-168	168	6,000	42,000	30	1,550
2-192	192	6,000	48,000	20+20	1,825
2-216	216	6,000	54,000	20+25	2,100
2-240	240	6,000	60,000	25+25	2,300
2-264	264	6,000	66,000	25+30	2,500
2-288	288	6,000	72,000	30+30	2,800



Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz.

(50hz AVAILABLE ON REQUEST) Sound Level Measured 10' from unit in free field: 85 dbA.

EWD STEAM/HOT WATER

MODEL EWD	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	STEAM (MBTU/HR)	STEAM TEMP RISE (°F)	HOT WATER (MBTU/HR)	H. W. TEMP RISE (°F)	NET WEIGHT (LBS)
1-96	96	6,000	25,000	20	968	35	608	23	1,000
1-108	108	6,000	28,000	20	1,089	35	684	23	1,050
1-120	120	6,000	29,300	25	1,120	35	760	23	1,125
1-144	144	6,000	36,000	30	1,452	35	912	23	1,350
1-168	168	6,000	42,000	30	1,694	35	1,064	23	1,550
2-192	192	6,000	48,000	20+20	1,936	35	1,216	23	1,825
2-216	216	6,000	54,000	20+25	2,178	35	1,368	23	2,100
2-240	240	6,000	60,000	25+25	2,420	35	1,520	23	2,300
2-264	264	6,000	66,000	25+30	2,662	35	1,672	23	2,500
2-288	288	6,000	72,000	30+30	2,904	35	1,824	23	2,800

Standard Voltages: 200/208/230/240/400/416/460/480/575/3 phase 60hz.

(50hz AVAILABLE ON REQUEST) Sound Level Measured 10' from unit in free field: 85 dbA.
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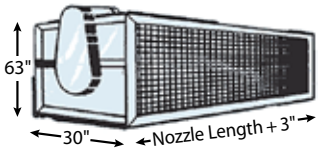
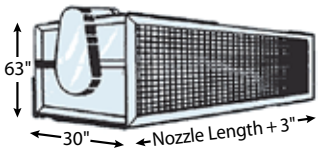


EWD ELECTRIC

MODEL EWD	NOZZLE LENGTH	MAX. VOLUME (FPM)	MAX. VOLUME (CFM)	MOTORS (HP)	ELECTRIC (KW) (LB)	TEMP RISE (F)	NET WEIGHT (LBS)
1-96	96	6,000	25,000	20	304	39	1,200
1-108	108	6,000	28,000	20	342	39	1,350
1-120	120	6,000	29,300	25	380	39	1,450
1-144	144	6,000	36,000	30	456	39	1,700
1-168	168	6,000	42,000	30	532	39	2,000
2-192	192	6,000	48,000	20+20	608	39	2,400
2-216	216	6,000	54,000	20+25	684	39	2,700
2-240	240	6,000	60,000	25+25	760	39	3,000
2-264	264	6,000	66,000	25+30	836	39	3,300
2-288	288	6,000	72,000	30+30	912	39	3,600



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