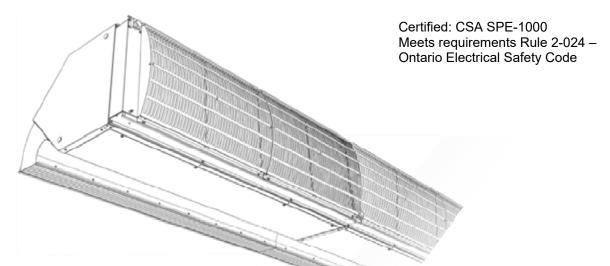
SUBMITTAL DATA



3500 Series Air Curtain

Modular Industrial Air Curtains for Indoor Use Horizontal & Vertical Mount Models

Opening height: 10' to 19'- 8" [3 to 6 m]; width up to 16' [5m]



PROJECT:			
ENGINEER:			
CONTRACTOR:			
DISTRIBUTOR:			
SchwankAir MODEL #:	3559	3579	3599
Electric Heat	3559WH	3579WH	3599WH
Hot Water Heat	3559WH-2	3579WH-2	3599WH-2
APPROVED BY:			
DATE:			
APPROVAL #:			

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Notice:

Schwank reserves the right to make changes to equipment and specifications due to revision in standards or to provide product improvement without obligation of notification.

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SchwankAir 3500 Series

Application:

The SchwankAir 3500 Series air curtain is intended for indoor horizontal or vertical mounting above/ beside building doorway openings: from heights 10' to 19'- 8" [3 to 6 m]; and widths up to 16' [5m] .

The 3500 Series air curtain is designed to provide quiet operation and energy savings by effectively separating indoor and outdoor environments, restricting entry of unconditioned air, dust, fumes, and insects. The 3500 Series air curtain can also be used at interior openings /doorways to isolate coolers, clean room environments, and other unconditioned areas.

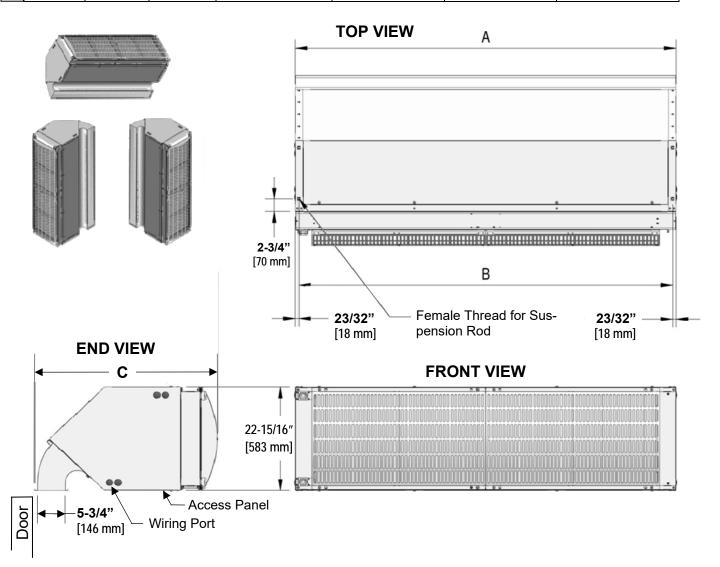
Features / Components Summary:

- Available unit widths (nominal): 59, 79, or 99 inches [1500, 2000, 2500 mm]
 - Multiple units are ganged together to suit opening width or height
- Galvanized sheet steel construction with durable gray finish
- Units suspend from structure with field supplied hardware
- b-Control (wired remote control) included
 - On/Off control
 - Continuously variable fan speed control
- 230 Vac / single phase / 60 hZ

Certified: CSA SPE-1000 Meets requirements Rule 2-024 – Ontario Electrical Safety Code

PROJECT QUANTITIES & UNIT DIMENSIONS Horizontal, and Left or Right Vertical Orientation

									With Filt	er Module	
	Base			No Heat Ho		Hot Wa	Hot Water		at	Hot Water	
	Unit	Α	В	С	QTY	С	QTY	С	QTY	С	QTY
	3559	59-1/16"	57-5/8"								
	3579	78-3/4"	77-5/16"	33-19/32"		37-5/8"		38-7/16"		42-15/16"	
	3599	98-7/16"	97"								
Units	3559	1500 mm	1464 mm								
ric Ur	3579	2000 mm	1964 mm	853 mm		956 mm		976 mm		1079 mm	
Metric	3599	2500 mm	2464 mm								



Technical & Performance Specifications

3500 Series: Ambient Air Recirculation Models – No Heating Coil

	-							
unit length	ft [m]	4.9 [1.5}				1 0		
door width / height	ft [m]	9.8 - 19.7 [3 - 6]						
electrical supply	V/ph/Hz	230/1/60						
max. input current	A	3						
max. input power	HP [kW]	0.7 [0.52]						
weight	lb [kg]	171 [78]						
speed		2V	4V	6V	8V	10V		
air volume	cfm [m ³ /h]	887 [1506]	1915 [3253]	2906 [4937]	3597 [6111]	3966 [6738]		
power consumption	kW	0.02	0.07	0.17	0.33	0.52		
sound pressure level at 16	ft dB(A)	24	40	50	57	60		

3559 Quantity on Project:

Specifications for:

■ 3500WH & 3500WH-2: next pages

3579 Quantity on Project:

unit length	ft [m]	6.6 [2]				
door width / height	ft [m]	9.8 - 19.7 [3 - 6]				
electrical supply	V/ph/Hz	230/1/60				
max. input current	А	4				
max. input power	HP [kW]	0.93 [0.69]				
weight	lb [kg]	221 [100]				
speed		2V	4V	6V	8V	10V
air volume	cfm [m ³ /h]	1182 [2008]	2553 [4337]	3874 [6582]	4796 [8148]	5288 [8984]
power consumption	kW	0.03	0.1	0.23	0.44	0.69
sound pressure level at 16	ft dB(A)	25	41	51	58	61

3599 Quantity on Project:

unit length	ft [m]	8.2 [2.5}				
door width / height	ft [m]	9.8 - 19.7 [3 - 6]				
electrical supply	V/ph/Hz	230/1/60				
max. input current	А	5				
max. input power	HP [kW]	1.17 [0.87]				
weight	lb [kg]	272 [124]				
speed		2V	4V	6V	8V	10V
air volume	cfm [m ³ /h]	1477 [2510]	3191 [5421]	4843 [8227]	5995 [10185]	6610 [11230]
power consumption	kW	0.04	0.12	0.29	0.55	0.87
sound pressure level at 16	ft dB(A)	26	42	52	59	62

3500WH Series: Hot Water Heating Coil; High Temperature Water; 1 Row Element

3559WH Quantity on Project:

·· ·		
ft [m]	4.9 [1.5]	
ft [m]	9.8 - 19.7 [3 - 6]	
V/ph/Hz	230/1/60	
А	3	
kW	0.52	
lb [kg]	202 [92]	
°F [°C]	176/140 [80/60]	
	2V	
cfm [m ³ /h]	887 [1506]	19
kW	0.02	
kBTU/h [kW]	45.4 [13.3]	7
°F [°C]	105.4 [40.8]	92
USGPH [l/h]	154 [583]	2
psi [kPa]	0.1 [0.4]	
psi [kPa]	0.1 [0.8]	(
ft dB(A)	24	
	ft [m] V/ph/Hz A kW Ib [kg] °F [°C] cfm [m ³ /h] kW kBTU/h [kW] °F [°C] USGPH [l/h] psi [kPa] psi [kPa]	ft [m] 9.8 - 19.7 [3 - 6] V/ph/Hz 230/1/60 A 3 kW 0.52 lb [kg] 202 [92] °F [°C] 176/140 [80/60] 2V cfm [m³/h] 887 [1506] kW 0.02 kBTU/h [kW] 45.4 [13.3] °F [°C] 105.4 [40.8] USGPH [l/h] 154 [583] psi [kPa] 0.1 [0.4] psi [kPa] 0.1 [0.8]

Specifications for:

- 3500 No Heat: previous page
- 3500WH-2 next page

rator range	. [9]					
speed		2V	4V	6V	8V	10V
air volume	cfm [m ³ /h]	887 [1506]	1915 [3253]	2906 [4937]	3597 [6111]	3966 [6738]
power consumption	kW	0.02	0.07	0.17	0.33	0.52
air inlet			5	9°F [15°C]		
neating capacity	kBTU/h [kW]	45.4 [13.3]	71.6 [21]	89.5 [26.2]	99.6 [29.2]	104.5 [30.6]
discharge air temperature	°F [°C]	105.4 [40.8]	92.9 [33.8]	86.9 [30.5]	84.1 [28.9]	89.4 [31.9]
water flow rate	USGPH [l/h]	154 [583]	243 [920]	304 [1150]	338 [1280]	312 [1181]
water pressure drop	psi [kPa]	0.1 [0.4]	0.1 [1]	0.2 [1.5]	0.3 [1.8]	0.3 [2]
water pressure drop with 2 & 3-port valve	psi [kPa]	0.1 [0.8]	0.3 [1.8]	0.4 [2.8]	0.5 [3.4]	0.5 [3.8]
sound pressure level at 16	ft dB(A)	24	40	50	57	60

3579WH Quantity on Project:

unit length	ft [m]	6.6 [2]				
door width / height	ft [m]	9.8 - 19.7 [3 - 6]	1			
electrical supply	V/ph/Hz	230/1/60	1			
max. input current	А	4				
max. input power	kW	0.69				
weight	lb [kg]	260 [118]				
water range	°F [°C]	176/140 [80/60]				
speed		2V	4V	6V	8V	10V
air volume	cfm [m³/h]	1182 [2008]	2553 [4337]	3874 [6582]	4796 [8148]	5288 [8984]
power consumption	kW	0.03	0.1	0.23	0.44	0.69
air inlet			5	9°F [15°C]		
heating capacity	kBTU/h [kW]	64.6 [18.9]	102.9 [30.1]	129.2 [37.9]	144.2 [42.3]	151.4 [44.4]
discharge air temperature	°F [°C]	108.5 [42.5]	95.5 [35.3]	89.2 [31.8]	86.2 [30.1]	91.4 [33]
water flow rate	USGPH [l/h]	219 [829]	349 [1321]	439 [1660]	490 [1853]	455 [1722]
water pressure drop	psi [kPa]	0.1 [0.9]	0.3 [2.2]	0.5 [3.4]	0.6 [4.2]	0.7 [4.5]
water pressure drop with 2 & 3-port valve	psi [kPa]	0.2 [1.6]	0.6 [4]	0.9 [6.1]	1.1 [7.6]	1.2 [8.3]
sound pressure level at 16	ft dB(A)	25	41	51	58	61

3599WH Quantity on Project:

unit length	ft [m]	8.2 [2.5]				
door width / height	ft [m]	9.8 - 19.7 [3 - 6]				
electrical supply	V/ph/Hz	230/1/60				
max. input current	А	5				
max. input power	kW	0.87				
weight	lb [kg]	318 [144]				
water range	°F [°C]	176/140 [80/60]				
speed		2V	4V	6V	8V	10V
air volume	cfm [m ³ /h]	1477 [2510]	3191 [5421]	4843 [8227]	5995 [10185]	6610 [11230]
power consumption	kW	0.04	0.12	0.29	0.55	0.87
air inlet temperature			5	9°F [15°C]		
heating capacity	kBTU/h [kW]	83.8 [24.5]	134.2 [39.3]	169.1 [49.6]	189.1 [55.4]	198.6 [58.2]
discharge air temperature	°F [°C]	110.4 [43.5]	97.1 [36.2]	90.6 [32.6]	87.6 [30.9]	92.6 [33.7]
water flow rate	USGPH [l/h]	284 [1076]	456 [1724]	574 [2172]	642 [2429]	599 [2266]
water pressure drop	psi [kPa]	0.2 [1.7]	0.6 [4.1]	0.9 [6.3]	1.1 [7.8]	1.2 [8.5]
water pressure drop with 2 & 3-port valve	psi [kPa]	0.4 [2.9]	1 [7.1]	1.6 [11]	2 [13.7]	2.2 [15]
sound pressure level at 16	ft dB(A)	26	42	52	59	62

3500WH-2 Series: Hot Water Heating Coil; Low Temperature Water; 2 Rows Element

3559WH-2 Quantity on Project:

unit length	ft [m]	4.9 [1.5]	
door width / height	ft [m]	9.8 - 19.7 [3 - 6]	
electrical supply	V/ph/Hz	230/1/60	
max. input current	А	3	
max. input power	kW	0.52	
weight	lb [kg]	210 [95]	
water range	°F [°C]	140/104 [60/40]	
speed		2V	
air volume	cfm [m ³ /h]	887 [1506]	1
power consumption	kW	0.02	
air inlet			
heating capacity	kBTU/h [kW]	47.9 [14]	
discharge air temperature	°F [°C]	107.9 [42.2]	
water flow rate	USGPH [l/h]	161 [609]	
water pressure drop	psi [kPa]	0.1 [0.5]	
water pressure drop with 2 & 3-port valve	psi [kPa]	0.1 [0.8]	
sound pressure level at 16	ft dB(A)	24	

Specifications for:

- 3500 No Heat: page 5
- 3500WH: previous page

speed 2V 4V 6V 8V 1	.0V
speed 2V 4V 6V 8V 1	.00
air volume cfm [m ³ /h] 887 [1506] 1915 [3253] 2906 [4937] 3597 [6111] 3966	[6738]
power consumption kW 0.02 0.07 0.17 0.33 0).52
air inlet 59°F [15°C]	
heating capacity kBTU/h [kW] 47.9 [14] 78.8 [23.1] 100.1 [29.3] 112.2 [32.9] 118	[34.6]
discharge air temperature °F [°C] 107.9 [42.2] 96.3 [35.7] 90.2 [32.3] 87.3 [30.7] 90.1	[32.3]
water flow rate USGPH [l/h] 161 [609] 265 [1003] 336 [1273] 377 [1427] 320	[1212]
water pressure drop psi [kPa] 0.1 [0.5] 0.2 [1.2] 0.3 [1.8] 0.3 [2.3] 0.4	[2.5]
water pressure drop with 2 & 3-port valve psi [kPa] 0.1 [0.8] 0.3 [2.2] 0.5 [3.4] 0.6 [4.3] 0.7	[4.7]
sound pressure level at 16 ft dB(A) 24 40 50 57	60

3579WH-2 Quantity on Project:

			-			
unit length	ft [m]	6.6 [2]				
door width / height	ft [m]	9.8 - 19.7 [3 - 6]				
electrical supply	V/ph/Hz	230/1/60	1			
max. input current	А	4				
max. input power	kW	0.69				
weight	lb [kg]	271 [123]	1			
water range	°F [°C]	140/104 [60/40]				
speed		2V	4V	6V	8V	10V
air volume	cfm [m ³ /h]	1182 [2008]	2553 [4337]	3874 [6582]	4796 [8148]	5288 [8984]
power consumption	kW	0.03	0.1	0.23	0.44	0.69
air inlet			5	9°F [15°C]		
heating capacity	kBTU/h [kW]	68.5 [20.1]	114.4 [33.5]	146.4 [42.9]	164.7 [48.3]	173.5 [50.8]
discharge air temperature	°F [°C]	111.5 [44.2]	99.6 [37.6]	93.2 [34]	90.1 [32.3]	92.8 [33.8]
water flow rate	USGPH [l/h]	230 [871]	384 [1455]	492 [1862]	553 [2094]	477 [1806]
water pressure drop	psi [kPa]	0.1 [1]	0.4 [2.7]	0.6 [4.2]	0.8 [5.3]	0.8 [5.8]
water pressure drop with 2 & 3-port valve	psi [kPa]	0.3 [1.8]	0.7 [4.8]	1.1 [7.7]	1.4 [9.7]	1.6 [10.7]
sound pressure level at 16	ft dB(A)	25	41	51	58	61

3599WH-2 Quantity on Project:

unit length	ft [m]	8.2 [2.5]				
door width / height	ft [m]	9.8 - 19.7 [3 - 6]				
electrical supply	V/ph/Hz	230/1/60				
max. input current	А	5				
max. input power	kW	0.87				
weight	lb [kg]	331 [150]				
water range	°F [°C]	140/104 [60/40]				
speed		2V	4V	6V	8V	10V
air volume	cfm [m ³ /h]	1477 [2510]	3191 [5421]	4843 [8227]	5995 [10185]	6610 [11230]
power consumption	kW	0.04	0.12	0.29	0.55	0.87
air inlet temperature		59°F [15°C]				
heating capacity	kBTU/h [kW]	89.1 [26.1]	150.1 [44]	193 [56.6]	217.5 [63.7]	229.3 [67.2]
discharge air temperature	°F [°C]	113.6 [45.3]	101.6 [38.7]	95.1 [35.1]	91.9 [33.3]	94.4 [34.6]
water flow rate	USGPH [l/h]	299 [1132]	504 [1909]	648 [2453]	731 [2765]	636 [2405]
water pressure drop	psi [kPa]	0.3 [1.9]	0.7 [5]	1.2 [8]	1.4 [10]	1.6 [11]
water pressure drop with 2 & 3-port valve	psi [kPa]	0.5 [3.2]	1.3 [8.7]	2 [14]	2.6 [17.6]	2.8 [19.5]
sound pressure level at 16 ft dB(A)		26	42	52	59	62

Optional Accessories - Project Quantities:

Project Qty	Accessory	Description / Feature
	Door switch	Regulate operation
	Outdoor thermostat (field supplied)	Basic weather compensation
	Modbus / BACNet module	BMS control & monitoring