

Submittal

TAG:

PRODUCT NAME _____
LOCATION _____
ARCHITECT _____
ENGINEER _____
CONTRACTOR _____
SUBMITTED BY _____ DATA _____

UNIT SUMMARY

Quantity						
Unit Designation						
Model No.						
Cooling Input						
Cooling Output						
CFM/ESP						
Electrical						
Minimum Ampacity						
Max Overcurrent Protection						
Net Unit Weight						
Accessory						
Catalog Form Number						

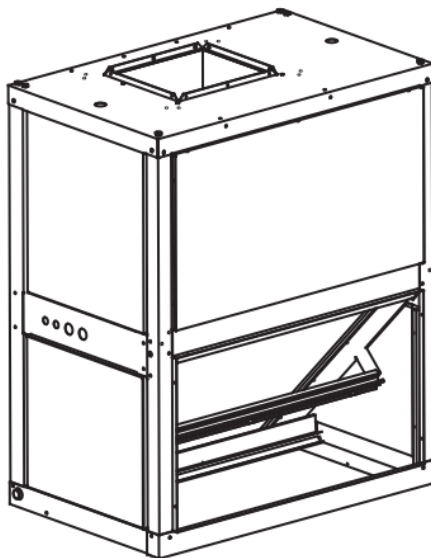
ACCESSORIES

NOTES

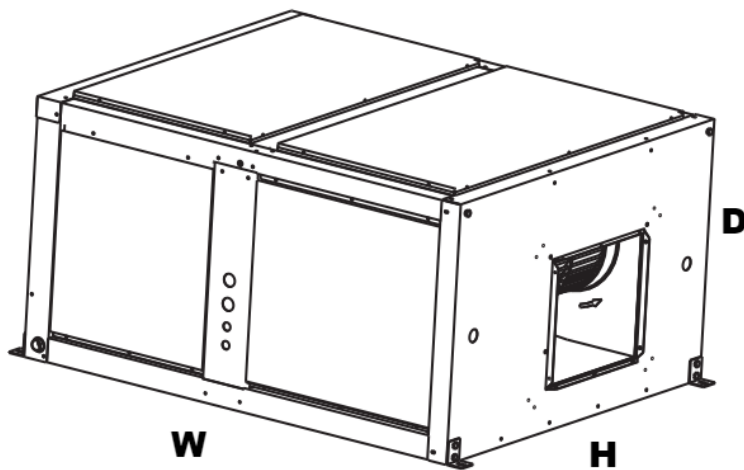
R410A

Air Handler

Cooling capacity: 90 kBTU/h



Vertical



Horizontal

Model Size	Unit Height "W" in. [mm]	Unit Width "H" in. [mm]	Unit Length "D" in. [mm]	Unit Weight (lbs.[kg])
CSH90-3	57-3/32"[1450]	44-7/8" [1140]	28-11/32" [720]	419 [190]

Specifications

Model			CSH90-3
Power supply		V/h/Hz	220V-3Ph-60Hz
Cooling capacity		Btu/h	88700
		W	26000
Indoor air flow		CFM	3000
Indoor fan	Material		Metal
	Type		Centrifugal fan
Fan motor	Quantity		1
	Type		AC
Indoor Coill	Fin type		Hydrophilic aluminum fin
	Tube type		Inner grooved copper pipe
	Number of circuits		2
ESP		In.wg	1.5(0.6-2.6)
Indoor noise level		dB(A)	56
Refrigerant system	Refrigerant type		R410A
	Throttle Type		TXV
	Design pressure	Pa	4.4/2.6
	Liquid pipe	In	1/2
	Gas pipe	In	7/8
Filter level			G1
Wried Controller			Optional
Dimension (W×H×D)		In	57-3/32×44-7/8×28-11/32
		mm	1450×1140×720
Packing (W×H×D)		In	57-7/8×45-1/16×35-3/64
		mm	1470×1145×890
Net/Gross weight		lbs	419/500
		Kg	190/226.5
Drain pipe size			3/4" NPT Female
Service code			369

Capacity table

CSH90-3

Gross Cooling Capacity (kW)																			
Outdoor DB(°C)		29.40									35.00								
Indoor	WB(°C)	16.10			19.40			22.80			16.10			19.40			22.80		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,510	23.90	18.06	12.04	5.22	18.96	12.64	5.48	19.91	13.27	5.76	17.53	11.69	6.05	18.41	12.27	6.35	19.33	12.89	6.66
	26.70	18.78	14.45	5.43	19.72	15.17	5.70	20.70	15.93	5.99	18.23	14.02	6.29	19.14	14.73	6.60	20.10	15.46	6.93
	29.40	19.53	16.28	5.65	20.51	17.09	5.93	21.53	17.94	6.23	18.96	15.80	6.54	19.91	16.59	6.87	20.91	17.42	7.21
	32.20	20.31	18.47	5.87	21.33	19.39	6.17	22.39	20.36	6.48	19.72	17.93	6.80	20.71	18.82	7.14	21.74	19.77	7.50
2,700	23.90	21.12	14.08	6.11	22.18	14.79	6.41	23.29	15.53	6.74	20.51	13.67	7.07	21.53	14.36	7.43	22.61	15.07	7.80
	26.70	21.97	16.90	6.35	23.07	17.74	6.67	24.22	18.63	7.00	21.33	16.41	7.35	22.40	17.23	7.72	23.52	18.09	8.11
	29.40	22.85	19.04	6.61	23.99	19.99	6.94	25.19	20.99	7.28	22.18	18.49	7.65	23.29	19.41	8.03	24.46	20.38	8.43
	32.20	23.76	21.60	6.87	24.95	22.68	7.22	26.20	23.82	7.58	23.07	20.97	7.96	24.22	22.02	8.35	25.43	23.12	8.77
3,000	23.90	24.71	16.47	7.15	25.95	17.30	7.50	27.25	18.16	7.88	23.99	16.00	8.27	25.19	16.79	8.69	26.45	17.63	9.12
	26.70	25.70	19.77	7.43	26.99	20.76	7.80	28.34	21.80	8.19	24.95	19.19	8.60	26.20	20.15	9.03	27.51	21.16	9.49
	29.40	26.47	22.06	7.66	27.80	23.16	8.04	29.19	24.32	8.44	25.70	21.42	8.86	26.99	22.49	9.31	28.34	23.61	9.77
	32.20	27.27	24.79	7.89	28.63	26.03	8.28	30.06	27.33	8.69	26.47	24.07	9.13	27.80	25.27	9.58	29.19	26.53	10.06
3,480	23.90	28.08	18.72	8.12	29.49	19.66	8.53	30.96	20.64	8.95	27.27	18.18	9.40	28.63	19.09	9.87	30.06	20.04	10.37
	26.70	28.93	22.25	8.37	30.37	23.36	8.78	31.89	24.53	9.22	28.08	21.60	9.68	29.49	22.68	10.17	30.96	23.82	10.68
	29.40	29.79	24.83	8.62	31.28	26.07	9.05	32.85	27.37	9.50	28.93	24.11	9.97	30.37	25.31	10.47	31.89	26.58	11.00
	32.20	30.69	27.90	8.88	32.22	29.29	9.32	33.83	30.76	9.78	29.79	27.09	10.27	31.28	28.44	10.79	32.85	29.86	11.33

Gross Cooling Capacity (kW)																			
Outdoor DB(°C)		40.60									46.10								
Indoor	WB(°C)	16.10			19.40			22.80			16.10			19.40			22.80		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,510	23.90	16.75	11.17	7.23	17.59	11.72	7.59	18.46	12.31	7.97	16.26	10.84	8.36	17.07	11.38	8.78	17.93	11.95	9.22
	26.70	17.42	13.40	7.51	18.29	14.07	7.89	19.20	14.77	8.28	16.91	13.01	8.70	17.76	13.66	9.13	18.64	14.34	9.59
	29.40	18.11	15.10	7.81	19.02	15.85	8.21	19.97	16.64	8.62	17.59	14.66	9.05	18.47	15.39	9.50	19.39	16.16	9.97
	32.20	18.84	17.13	8.13	19.78	17.98	8.53	20.77	18.88	8.96	18.29	16.63	9.41	19.20	17.46	9.88	20.16	18.33	10.37
2,700	23.90	19.59	13.06	8.45	20.57	13.71	8.88	21.60	14.40	9.32	19.02	12.68	9.78	19.97	13.32	10.27	20.97	13.98	10.79
	26.70	20.38	15.67	8.79	21.39	16.46	9.23	22.46	17.28	9.69	19.78	15.22	10.18	20.77	15.98	10.69	21.81	16.78	11.22
	29.40	21.19	17.66	9.14	22.25	18.54	9.60	23.36	19.47	10.08	20.57	17.14	10.58	21.60	18.00	11.11	22.68	18.90	11.67
	32.20	22.04	20.04	9.51	23.14	21.04	9.98	24.30	22.09	10.48	21.40	19.45	11.01	22.47	20.42	11.56	23.59	21.45	12.13
3,000	23.90	22.92	15.28	9.89	24.07	16.04	10.38	25.27	16.85	10.90	22.25	14.84	11.45	23.37	15.58	12.02	24.53	16.36	12.62
	26.70	23.84	18.34	10.28	25.03	19.25	10.80	26.28	20.22	11.34	23.14	17.80	11.90	24.30	18.69	12.50	25.52	19.63	13.13
	29.40	24.55	20.46	10.59	25.78	21.48	11.12	27.07	22.56	11.68	23.84	19.86	12.26	25.03	20.86	12.88	26.28	21.90	13.52
	32.20	25.29	22.99	10.91	26.55	24.14	11.46	27.88	25.35	12.03	24.55	22.32	12.63	25.78	23.44	13.26	27.07	24.61	13.92
3,480	23.90	26.05	17.36	11.24	27.35	18.23	11.80	28.72	19.14	12.39	25.29	16.86	13.01	26.55	17.70	13.66	27.88	18.59	14.34
	26.70	26.83	20.64	11.57	28.17	21.67	12.15	29.58	22.75	12.76	26.05	20.04	13.40	27.35	21.04	14.07	28.72	22.09	14.77
	29.40	27.63	23.03	11.92	29.02	24.18	12.52	30.47	25.39	13.14	26.83	22.36	13.80	28.17	23.48	14.49	29.58	24.65	15.22
	32.20	28.46	25.88	12.28	29.89	27.17	12.89	31.38	28.53	13.54	27.63	25.12	14.21	29.02	26.38	14.93	30.47	27.70	15.67

Notes:

DB= Dry Bulb temperature; WB= Wet Bulb Temperature

TC= Total Capacity (Unit: kW)

SC= Sensible Capacity (Unit: kW)

PI = Power Input (Unit: kW)

Electric characteristics

Model	Indoor unit				Power supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	kW	FLA
CSH90-3	60	220V	198V	240V	6.29	7	1.5	5.99

Notes:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

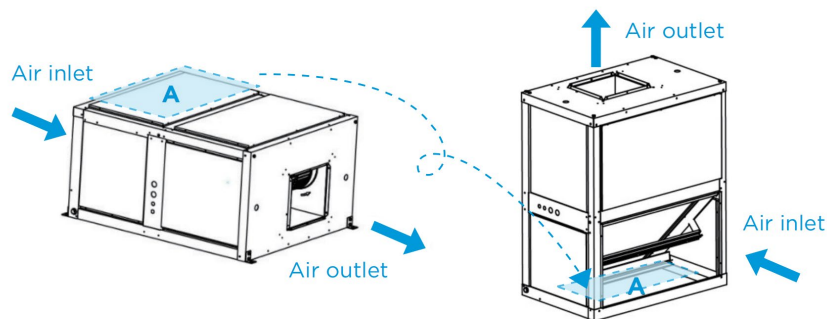
IFM: Indoor Fan Motor

kW: Fan Motor Rated Output (kW)

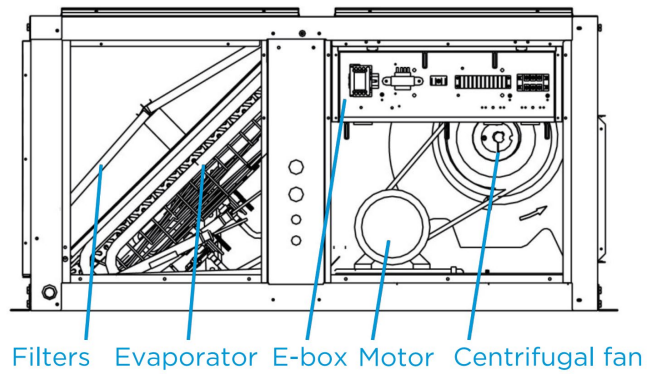
FLA: Full Load Amps. (A)

Features

- 7.5ton and 10ton, dual circuits design, standard with TXV
- Flexible installation, horizontal installation and vertical installation are available.



- 24V universal communication, compatible with 24V condenser units.
- Easy maintenance, Inlet & outlet pipe of evaporator, control box, fan and motor are in same side.



Add.: 12201 N W 107th Avenue Miami, FL 33178

1.866.524.9898 Toll Free

305.500.9898 Office

305.500.9896 Fax document.

<http://www.comfortstarusa.com>