

Description:

These air handlers are designed for horizontal mounting into a furred down ceiling, and will handle up to 1150 CFM and up to 3 ton of cooling with a DX cooling or heat pump coil, or Chilled Water coil.

These units will provide up to 10 KW of electric heat or up to 51,000 MBTUH of hot water heating.

For DX cooling requirements these air handlers can be matched with most manufacturer's condensing units and heat pumps.

The "S" series air handlers are exposed blower type, and the "C" series is equipped with an insulated cabinet over the top and sides. The bottom of the case is open to accommodate a louvered/filtered access panel.

The cased units have a knock-out for rear return air. Return air duct flanges and filter racks are field supplied

Standard Features:

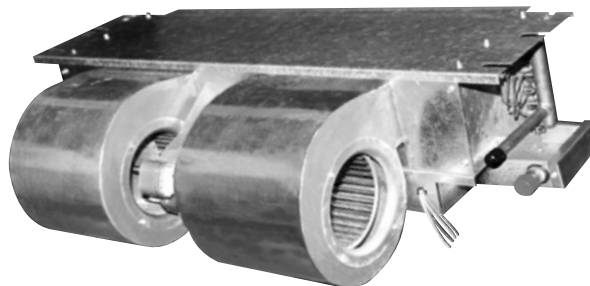
- * Electric heat models are 208/230/1/60.
- * Hot water heat models are 115/1/60.
- * Water circulating pump is factory installed on hot water heat models.
- * Space saving design.
- * Galvanized steel blower wheels.
- * Prewired for cooling and heating.
- * Control transformer.
- * Primary and secondary condensate drain pans.
- * Easy access for service and maintenance.
- * High efficiency copper tubs aluminum fin coils.

Field Installed Options:

- * Louvered or non-louvered ceiling access panels.
- * Time delay relay.

Factory Installed Options:

- * Thermostatic expansion valve, either R-22 or R-410A, all expansion valves are suitable for heat pump application.
- * Deduct for removing hot water circulating pump for boiler loop applications.



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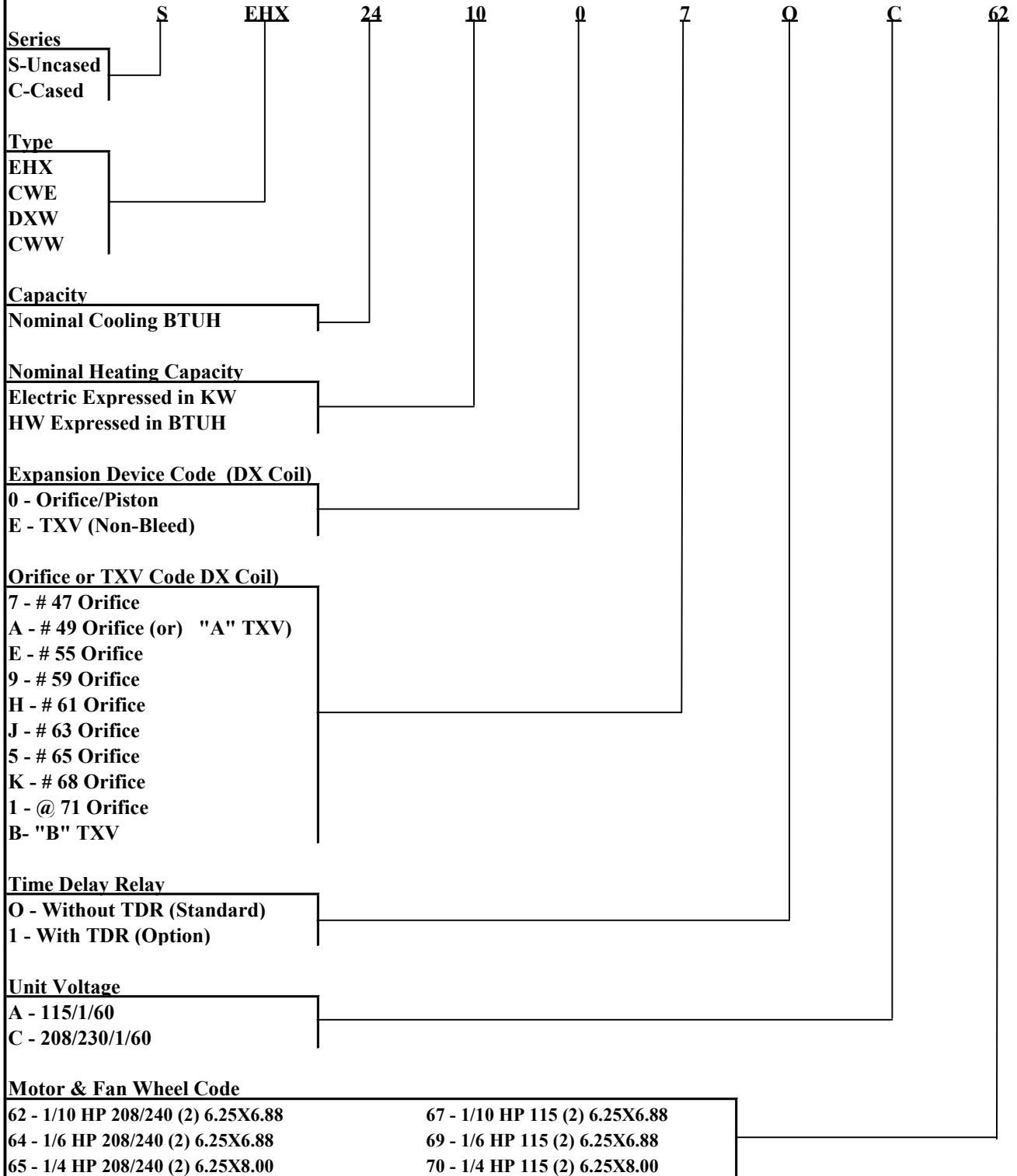
Form: SEHX/070106-1



HORIZONTAL CEILING MOUNTED AIR HANDLER

SEHX/CEHX Direct Expansion Cooling Electric Heating
 SDXW/CDXW Direct Expansion Cooling Hot Water Heating
 SCWE/CCWE Chilled Water Cooling Electric Heating
 SCWW/CCWW Chilled Water Cooling Hot Water Heating

UNIT NOMENCLATURE



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Form: SEHX/070106-2

For more information contact Customer Service 817-624-0820
 or your SunTherm Representative.

501 Terminal Road Fort Worth, Texas 76106 Ph. 817-624-0820 Fx. 817-624-8581



HORIZONTAL CEILING MOUNTED AIR HANDLER

SEHX/CEHX Direct Expansion Cooling Electric Heating
 SDXW/CDXW Direct Expansion Cooling Hot Water Heating
 SCWE/CCWE Chilled Water Cooling Electric Heating
 SCWW/CCWW Chilled Water Cooling Hot Water Heating

FAN DATA

SEHX / CEHX SCWE / CCWE	Motor HP	CFM @ External Static Pressure						
		0.00"	0.05"	0.10"	0.15"	0.20"	0.25"	0.30"
-18-XX-0A-0C64	1/6	810	785	765	740	720	700	680
-19-XX-0E-0C64	1/6	910	880	855	830	805	785	765
-24-XX-09-0C64	1/6	950	920	890	875	850	825	805
-25-XX-0H-0C65	1/4	1160	1130	1100	1070	1040	1020	985
-30-XX-0J-0C65	1/4	1180	1145	1115	1085	1055	1025	1000
-31-XX-05-0C65	1/4	1160	1130	1100	1070	1040	1020	985
-34-XX-0K-0C65	1/4	1256	1212	1172	1133	1084	1059	1029
-35-XX-01-0C65	1/4	1216	1172	1138	1108	1049	1024	995
-36-XX-0K-0C65	1/4	1275	1230	1190	1150	1100	1075	1045
-37-XX-01-0C65	1/4	1235	1190	1155	1125	1065	1040	1010

FAN DATA

SDXW / CDXW SCWW / CCWW	Motor HP	CFM @ External Static Pressure						
		0.00"	0.05"	0.10"	0.15"	0.20"	0.25"	0.30"
-18-21-0A-0C69	1/6	794	769	750	725	706	686	666
-19-21-0E-0C69	1/6	892	862	838	813	789	769	750
-24-23-09-0C69	1/6	931	902	872	858	833	809	789
-25-23-0H-0C69	1/4	1137	1107	1078	1049	1019	1000	965
-30-27-0J-0C70	1/4	1156	1122	1093	1063	1034	1005	980
-31-28-05-0C70	1/4	1137	1107	1078	1049	1019	1000	965
-34-30-0K-0C70	1/4	1231	1188	1149	1110	1062	1038	1008
-35-30-0K-0C70	1/4	1192	1149	1115	1086	1028	1004	975
-36-32-0K-0C70	1/4	1250	1205	1166	1127	1078	1054	1024
-37-32-0K-0C70	1/4	1210	1166	1132	1103	1044	1019	990

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HORIZONTAL CEILING MOUNTED AIR HANDLER

SEHX/CEHX Direct Expansion Cooling Electric Heating
 SDXW/CDXW Direct Expansion Cooling Hot Water Heating
 SCWE/CCWE Chilled Water Cooling Electric Heating
 SCWW/CCWW Chilled Water Cooling Hot Water Heating

Physical Data:

Model No.	Motor HP HP	DX Rows	CW Rows	HW Rows	Suction Conn.	Liquid Conn.	CW Conn.	HW Conn.	Shp. Wght.
SEHX & CEHX Series DX Cooling Electric Heat									
18	1/6	3	N/A	N/A	3/4	3/8	N/A	N/A	60
19	1/6	4	N/A	N/A	3/4	3/8	N/A	N/A	65
24	1/6	3	N/A	N/A	3/4	3/8	N/A	N/A	60
25	1/4	4	N/A	N/A	3/4	3/8	N/A	N/A	75
30	1/4	3	N/A	N/A	3/4	3/8	N/A	N/A	70
31	1/4	4	N/A	N/A	3/4	3/8	N/A	N/A	75
34	1/4	3	N/A	N/A	3/4	3/8	N/A	N/A	74
35	1/4	4	N/A	N/A	3/4	3/8	N/A	N/A	80
36	1/4	3	N/A	N/A	3/4	3/8	N/A	N/A	85
37	1/4	4	N/A	N/A	3/4	3/8	N/A	N/A	90

SDXW & CDXW Series DX Cooling Hot Water Heat									
18	1/6	3	N/A	2	3/4	3/8	N/A	5/8	64
19	1/6	4	N/A	2	3/4	3/8	N/A	5/8	69
24	1/6	3	N/A	2	3/4	3/8	N/A	5/8	64
25	1/4	4	N/A	2	3/4	3/8	N/A	5/8	79
30	1/4	3	N/A	2	3/4	3/8	N/A	5/8	74
31	1/4	4	N/A	2	3/4	3/8	N/A	5/8	79
34	1/4	3	N/A	2	3/4	3/8	N/A	5/8	78
35	1/4	4	N/A	2	3/4	3/8	N/A	5/8	84
36	1/4	3	N/A	2	3/4	3/8	N/A	5/8	89
37	1/4	4	N/A	2	3/4	3/8	N/A	5/8	94

SCWE & CCWE Series Chilled Water Cooling Electric Heat									
18	1/6	N/A	4	N/A	N/A	N/A	5/8	N/A	65
19	1/6	N/A	5	N/A	N/A	N/A	5/8	N/A	70
24	1/6	N/A	4	N/A	N/A	N/A	5/8	N/A	65
25	1/4	N/A	5	N/A	N/A	N/A	5/8	N/A	80
30	1/4	N/A	4	N/A	N/A	N/A	5/8	N/A	75
31	1/4	N/A	5	N/A	N/A	N/A	5/8	N/A	80
34	1/4	N/A	4	N/A	N/A	N/A	5/8	N/A	79
35	1/4	N/A	5	N/A	N/A	N/A	5/8	N/A	85
36	1/4	N/A	4	N/A	N/A	N/A	5/8	N/A	90
37	1/4	N/A	5	N/A	N/A	N/A	5/8	N/A	95

SCWW & CCWW Series Chilled Water Cooling Hot Water Heat									
18	1/6	N/A	4	2	N/A	N/A	5/8	5/8	67
19	1/6	N/A	5	2	N/A	N/A	5/8	5/8	72
24	1/6	N/A	4	2	N/A	N/A	5/8	5/8	67
25	1/4	N/A	5	2	N/A	N/A	5/8	5/8	82
30	1/4	N/A	4	2	N/A	N/A	5/8	5/8	77
31	1/4	N/A	5	2	N/A	N/A	5/8	5/8	82
34	1/4	N/A	4	2	N/A	N/A	5/8	5/8	81
35	1/4	N/A	5	2	N/A	N/A	5/8	5/8	87
36	1/4	N/A	4	2	N/A	N/A	5/8	5/8	92
37	1/4	N/A	5	2	N/A	N/A	5/8	5/8	97

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SunTherm™

HEATING PRODUCTS

HORIZONTAL CEILING MOUNTED AIR HANDLER

SEHX/CEHX Direct Expansion Cooling Electric Heating
 SDXW/CDXW Direct Expansion Cooling Hot Water Heating
 SCWE/CCWE Chilled Water Cooling Electric Heating
 SCWW/CCWW Chilled Water Cooling Hot Water Heating

PERFORMANCE & ELECTRICAL DATA (ELECTRIC HEAT)

Model Number	Nominal Tons	Nominal CFM	Electric Heat		Capacity (BTUH)		@ 230/1/60	
			KW @ 230/1	KW @ 208/1	230/1	208/1	MCA *	MOCP
SEHX/CEHX-18,19 SCWE/CCWE-18,19	1.5	600	0	0	0	0	2.5	10.0
			3.0	2.3	10245	7684	18.0	20.0
			5.0	3.8	17075	12806	28.0	30.0
			6.0	4.5	20490	15368	33.0	40.0
			8.0	6.0	27320	20490	43.0	45.0
			10.0	7.5	34150	25613	55.0	60.0
SEHX/CEHX-24 SCWE/CCWE-24	2.0	800	0	0	0	0	2.5	10.0
			3.0	2.3	10245	7684	18.0	20.0
			5.0	3.8	17075	12806	28.0	30.0
			6.0	4.5	20490	15368	33.0	40.0
			8.0	6.0	27320	20490	43.0	45.0
			10.0	7.5	34150	25613	55.0	60.0
SEHX/CEHX-25,30,31 SCWE/CCWE-25,30,31	2.5	1000	0	0	0	0	2.5	10.0
			3.0	2.3	10245	7684	18.0	20.0
			5.0	3.8	17075	12806	28.0	30.0
			6.0	4.5	20490	15368	33.0	40.0
			8.0	6.0	27320	20490	43.0	45.0
			10.0	7.5	34150	25613	55.0	60.0
SEHX/CEHX-34,35 SCWE/CCWE-34,35	3.0	1100	0	0	0	0	3.8	15.0
			3.0	2.3	10245	7684	19.0	20.0
			5.0	3.8	17075	12806	29.0	30.0
			6.0	4.5	20490	15368	35.0	40.0
			8.0	6.0	27320	20490	45.0	45.0
			10.0	7.5	34150	25613	55.0	60.0
SEHX/CEHX-36,37 SCWE/CCWE-36,37	3.0	1200	0	0	0	0	3.8	15.0
			3.0	2.3	10245	7684	19.0	20.0
			5.0	3.8	17075	12806	29.0	30.0
			6.0	4.5	20490	15368	35.0	40.0
			8.0	6.0	27320	20490	45.0	45.0
			10.0	7.5	34150	25613	55.0	60.0

* Amp Ratings @ 240/1/60 - Derate 25% for 208/1/60

PERFORMANCE & ELECTRICAL DATA (HOT WATER HEAT)

Model Number SDXW/CDXW SCWW/CCWW	Nominal Tons	Nominal CFM	Hot Water Heating Capacity	FLA @ 115/1	MCA @ 115/1	MOCP @ 115/1
-18-21-0A-0C69	1.5	680	21,000	2.32	2.0	15
-19-21-0E-0C69	1.5	765	21,000	2.42	3.0	15
-24-23-09-0C69	2.0	805	23,000	2.42	3.0	15
-25-23-0H-0C69	2.5	985	23,000	2.42	3.0	15
-30-27-0J-0C70	2.5	1000	27,000	3.82	4.8	15
-31-28-05-0C70	2.5	985	28,000	3.82	4.8	15
-34-30-0K-0C70	3.0	1029	30,000	3.82	4.8	15
-35-30-0K-0C70	3.0	995	30,000	3.82	4.8	15
-36-32-0K-0C70	3.0	1045	32,000	3.82	4.8	15
-37-32-0K-0C70	3.0	1010	32,000	3.82	4.8	15

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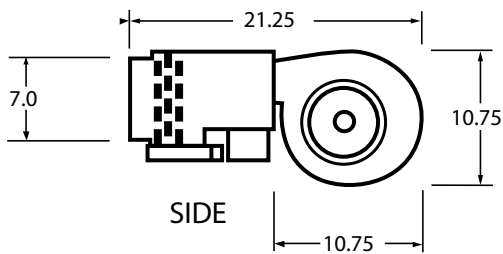
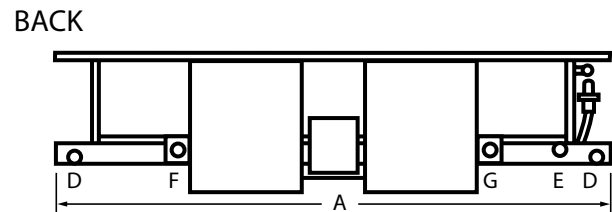
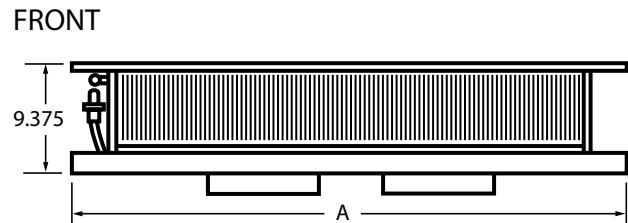
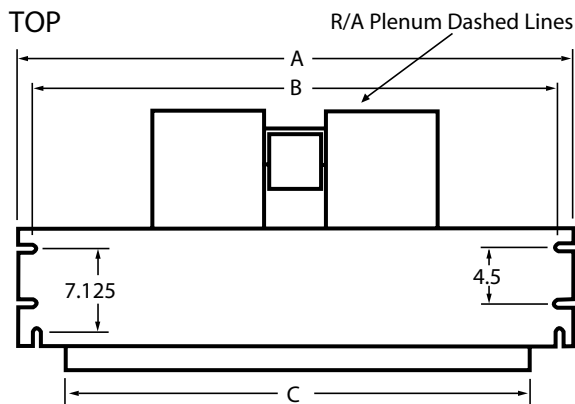
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Form: SEHX/070106-6

SEHX/CEHX Direct Expansion Cooling Electric Heating
 SDXW/CDXW Direct Expansion Cooling Hot Water Heating
 SCWE/CCWE Chilled Water Cooling Electric Heating
 SCWW/CCWW Chilled Water Cooling Hot Water Heating

PHYSICAL DIMENSIONS (UNCASED)			
SEHX/SCWE/SDXW/SCWW	A	B	C
18, 19, 24,	37.00	34.25	30.00
25, 30, 31	45.00	45.25	38.00
34, 35	49.00	46.25	42.00
36, 37	56.00	53.25	49.00



- D 3/4 MALE DRAIN CONN PRIMARY
- E 3/4 MALE DRAIN CONN SECONDARY
- F .875 POWER CONN
- G .562 THERMOSTAT CONN

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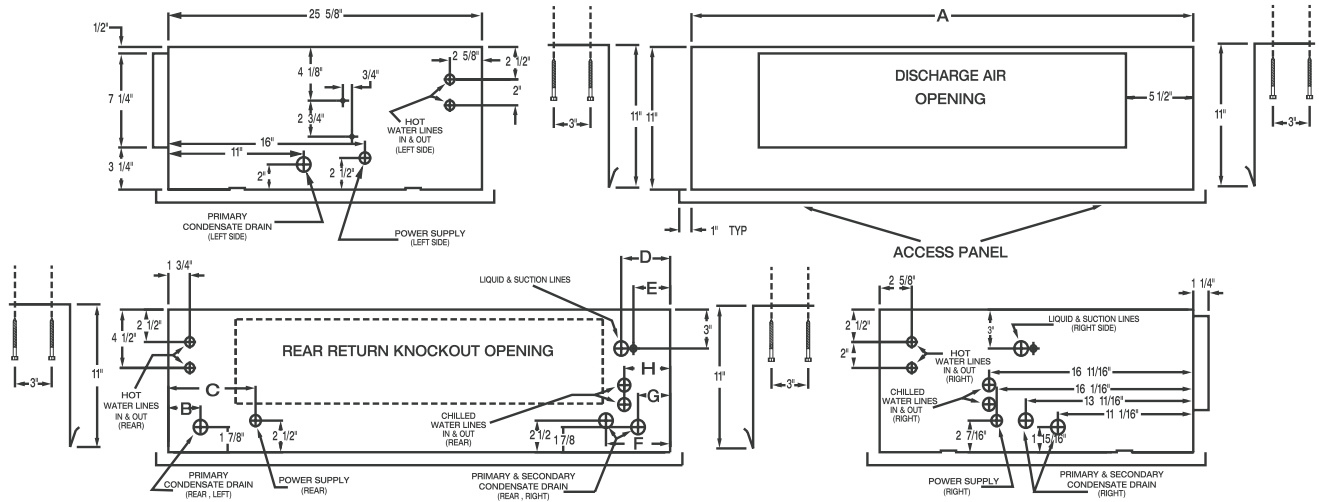
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Form: SEHX/070106-9

SEHX/CEHX Direct Expansion Cooling Electric Heating
 SDXW/CDXW Direct Expansion Cooling Hot Water Heating
 SCWE/CCWE Chilled Water Cooling Electric Heating
 SCWW/CCWW Chilled Water Cooling Hot Water Heating

Dimensional Data:

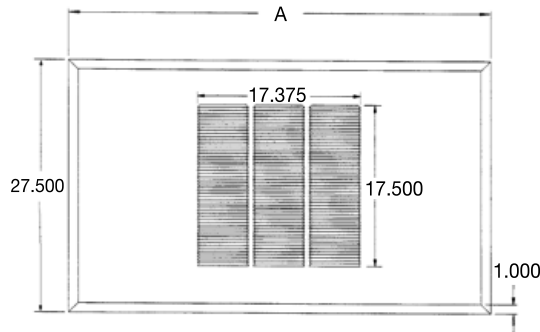
CASED AIR HANDLER



PHYSICAL DIMENSIONS								
MODEL	A	B	C	D	E	F	G	H
18 / 24	41"	2 5/8"	7 1/8"	4"	3"	5 1/4"	2 5/8"	3 3/4"
30	47"	2"	10 1/2"	2 1/2"	1 1/2"	4 5/8"	2"	2 11/16"
34 / 35	53 1/2"	3 1/4"	13 3/4"	3 1/4"	2 3/4"	5 7/8"	3 1/4"	3 15/16"
36 / 37	60 1/2"	3 1/4"	17 1/2"	3 1/4"	2 3/4"	5 7/8"	3 1/4"	3 15/16"

DISCHARGE AIR	
18/24	30" X 7 1/4"
30	38" X 7 1/4"
34/35	42" X 7 1/4"
36/37	49" X 7 1/4"

REAR RETURN KNOCKOUT OPENING	
18/24	30" X 6 1/2"
30	38" X 6 1/2"
34/35	42" X 6 1/2"
36/37	49" X 6 1/2"



Ceiling Access Panels:

Part Number	Frame Dimensions	Type	Fan Coil Model Number	Ship Wt.
CPL1	27-1/2 X 43	Louvered	18,19,24	18
CPNL1	27-1/2 X 43	Non-Louvered	18,19,24	18
CPL2	27-1/2 X 49	Louvered	25,30,31	20
CPNL2	27-1/2 X 49	Non-Louvered	25,30,31	20
CPL3	27-1/2 X 55-1/2	Louvered	34,35	21
CPNL3	27-1/2 X 55-1/2	Non-Louvered	34,35	21
CPL4	27-1/2 X 62-1/2	Louvered	36,37	22
CPNL4	27-1/2 X 62-1/2	Non-Louvered	36,37	22

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Form: SEHX/070106-10



ACCESSORIES AND OPTIONS
ALL MODELS

FIELD INSTALLED ACCESSORIES AND FACTORY INSTALLED OPTIONS

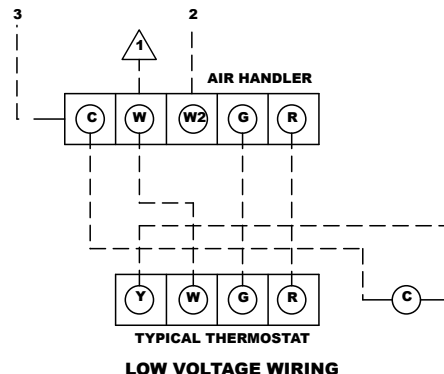
Thermal Expansion Valves (Factory or Field) All Units		Downflow Conversion Kits (Multi-Position)	
TXV3-A	Expansion valve 1.5-3.0 tons R-22	DFK41-10	Fits CA0XX820 coils
TXV3-B	Expansion valve 3.0-5.0 tons R-22	DFK41-12	Fits CA0XXA821,861 coils
TXV4-A	Expansion valve 1.5-3.0 tons R-410a	DFK41-14	Fits CA0XXA822,862,892 coils
TXV4-B	Expansion valve 3.0-5.0 tons R-410a	DFK15-16	Fits CA0XXA863 coils
		DFK15-18	Fits CA0XXA864,894 coils
	Specify Field or Factory Installed	DFK15-20	Fits CA0XXA865,895,695 coils

Hydronic Accessories All Units		Accessories for Dedicated Vertical/Wall Mount	
68AC002	Pump timer for hydronic coil pruge.	WPD02	Wall panel door for 02 models
RPA-01	Remote pump assembly 4 GPM 1/2"	WPD03	Wall panel door for 03 models
RPA-02	Remote pump assembly 4 GPM 3/4"	LCD02	Louvered coil door for 02 models
RPA-03	Remote pump assembly 7 GPM 3/4"	LCD03	Louvered coil door for 03 models
Deduct available to remove pump for boiler loop applications.		BRP02	Bottom return air panel for 02 model
		BRP03	Bottom return air panel for 03 models
		WB	Wall Mounting Brackets

Field Installed Electric Heaters "S41" Multi-Position		Accessories For Furr Down Horizontal	
S41HK-03	3 KW without breaker	CPL1	Louvered Access Panel (18,19,24)
B41HK-03	3 KW with breaker	CPNL1	Non-louvered Access Panel (18,19,24)
S41HK-05	5 KW without breaker	CPL2	Louvered Access Panel (25,30,31)
B41HK-05	5 KW with breaker	CPNL2	Non-louvered Access Panel (25,30,31)
S41HK-06	6 KW without breaker	CPL3	Louvered Access Panel (34,35)
B41HK-06	6 KW with breaker	CPNL3	Non-louvered Access Panel (34,35)
S41HK-08	8 KW without breaker	CPL4	Louvered Access Panel (36,37)
B41HK-08	8 KW with breaker	CPNL4	Non-louvered Access Panel (36,37)
S41HK-10	10 KW without breaker	TDR	Time Delay Relay
B41HK-10	10 KW with breaker		
B41HK-12	12 KW with breaker		

Field Installed Electric Heaters "S15" Multi-Position	
S15HK-05	5 KW without breaker
B15HK-05	5 KW with breaker
S15HK-06	6 KW without breaker
B15HK-06	6 KW with breaker
S15HK-08	8 KW without breaker
B15HK-08	8 KW with breaker
S15HK-10	10 KW without breaker
B15HK-10	10 KW with breaker
B15HK-12	12 KW with breaker
B15HK-15	15 KW with breaker
B15HK-20	20 KW with breaker

Typical Thermostat Wiring



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