



Compressor	HP	10				15				20				25			
		208-230 V		460 V		208-230 V		460 V		208-230 V		460 V		208-230 V		460 V	
Voltage	V/3/60Hz	410A	134a	410A	134a	410A	134a	410A	134a	410A	134a	410A	134a	410A	134a	410A	134a
Refrigerant																	
RLA	Amps	47.9	33.2	20.7	14.9	55.7	43.5	26.0	22.3	75	60.8	36.4	27.8	94.3	72.5	46.4	39.6
LRA	Amps	267	265	130	120	320	420	160	175	485	460	215	215	560	560	260	220
MCA	Amps	59.9	41.5	25.9	18.6	69.6	54.4	32.5	27.9	93.8	76.0	45.5	34.8	117.9	90.6	58.0	49.5
MOCP	Amps	59.9	41.5	25.9	18.6	69.6	54.4	32.5	27.9	93.8	76.0	45.5	34.8	117.9	90.6	58.0	49.5
Dry Weight	lbs	690				770				960				1030			

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Customer:	
Project:	
Sales Rep:	
Date: AUGUST 2008 Brochure No 801	Rev: 1-23-09
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H H Systems, INC

**SERIES: SS 10/15/20/25**

**Water-to-Water Heat Pumps**

Source Water Entering Temp = 90°F	HEATING MODE										COOLING MODE				
	Units	R-410A					R-134a					R-410A	R-134a	Units	
Building Water Entering Temp	°F					100	110	120	130	140	55	55	°F	Building Water Entering Temp	
Building Water Leaving Temp	°F					110	120	130	140	150	45	45	°F	Building Water Leaving Temp	
Heating Capacity	MBTUH					512.9	489.5	326.7	316.2	306.2	312.4	200.5	MBTUH	Cooling Capacity	
Condenser Water Flow	GPM					102.6	97.9	65.3	63.2	61.2	62.5	40.1	GPM	Evaporator Water Flow	
Evaporator Load	MBTUH					424.8	391.3	254.7	236.3	217.7	391.0	251.3	MBTUH	Condenser Load	
Evaporator Water Flow	GPM					85.0	78.3	50.9	47.3	43.5	78.2	50.3	GPM	Condenser Water Flow	
Power Input	kW					25.8	28.8	21.1	23.4	25.9	23.0	14.9	kW	Power Input	
COP	-					5.82	4.99	4.53	3.96	3.46	13.56	13.47	-	EER	
Source Water Leaving Temp	°F					80	80	80	80	80	100	100	°F	Source Water Leaving Temp	

Source Water Entering Temp = 60°F	HEATING MODE										COOLING MODE				
	Units	R-410A					R-134a					R-410A	R-134a	Units	
Building Water Entering Temp	°F					90	100	110	120	130	140	55	55	°F	Building Water Entering Temp
Building Water Leaving Temp	°F					100	110	120	130	140	150	45	45	°F	Building Water Leaving Temp
Heating Capacity	MBTUH					535.3	512.9	489.5	326.7	316.2	306.2	333.3	212.3	MBTUH	Cooling Capacity
Condenser Water Flow	GPM					107.1	102.6	97.9	65.3	63.2	61.2	66.7	42.5	GPM	Evaporator Water Flow
Evaporator Load	MBTUH					455.9	424.8	391.3	254.7	236.3	217.7	404.0	257.8	MBTUH	Condenser Load
Evaporator Water Flow	GPM					91.2	85.0	78.3	50.9	47.3	43.5	80.8	51.6	GPM	Condenser Water Flow
Power Input	kW					23.3	25.8	28.8	21.1	23.4	25.9	20.7	13.3	kW	Power Input
COP	-					6.74	5.82	4.99	4.53	3.96	3.46	16.10	15.92	-	EER
Source Water Leaving Temp	°F					70	70	70	70	70	70	90	90	°F	Source Water Leaving Temp

Source Water Entering Temp = 70°F	HEATING MODE										COOLING MODE					
	Units	R-410A					R-134a					R-410A	R-134a	Units		
Building Water Entering Temp	°F					80	90	100	110	120	130	140	55	55	°F	Building Water Entering Temp
Building Water Leaving Temp	°F					90	100	110	120	130	140	150	45	45	°F	Building Water Leaving Temp
Heating Capacity	MBTUH					514.3	495.3	475.3	454.4	300.3	291.3	282.7	352.6	222.7	MBTUH	Cooling Capacity
Condenser Water Flow	GPM					102.9	99.1	95.1	90.9	60.1	58.3	56.5	70.5	44.5	GPM	Evaporator Water Flow
Evaporator Load	MBTUH					442.9	416.1	387.3	356.3	228.8	212.0	194.9	416.2	263.8	MBTUH	Condenser Load
Evaporator Water Flow	GPM					88.6	83.2	77.5	71.3	45.8	42.4	39.0	83.2	52.8	GPM	Condenser Water Flow
Power Input	kW					20.9	23.2	25.8	28.8	21.0	23.2	25.7	18.6	12.1	kW	Power Input
COP	-					7.20	6.26	5.40	4.63	4.20	3.67	3.22	18.92	18.48	-	EER
Source Water Leaving Temp	°F					60	60	60	60	60	60	60	80	80	°F	Source Water Leaving Temp

Source Water Entering Temp = 60°F	HEATING MODE										COOLING MODE						
	Units	R-410A					R-134a					R-410A	R-134a	Units			
Building Water Entering Temp	°F					70	80	90	100	110	120	130	140			°F	Building Water Entering Temp
Building Water Leaving Temp	°F					80	90	100	110	120	130	140	150			°F	Building Water Leaving Temp
Heating Capacity	MBTUH					452.0	438.1	423.3	407.7	391.6	253.7	247.3	241.4			MBTUH	Cooling Capacity
Condenser Water Flow	GPM					90.4	87.6	84.7	81.5	78.3	50.7	49.5	48.3			GPM	Evaporator Water Flow
Evaporator Load	MBTUH					388.2	367.2	344.5	319.9	293.5	183.4	169.4	155.2			MBTUH	Condenser Load
Evaporator Water Flow	GPM					77.6	73.4	68.9	64.0	58.7	36.7	33.9	31.0			GPM	Condenser Water Flow
Power Input	kW					18.7	20.8	23.1	25.7	28.7	20.6	22.8	25.3			kW	Power Input
COP	-					7.08	6.18	5.37	4.64	3.99	3.61	3.17	2.80			-	EER
Source Water Leaving Temp	°F					50	50	50	50	50	50	50	50			°F	Source Water Leaving Temp

Source Water Entering Temp = 50°F	HEATING MODE										COOLING MODE					
	Units	R-410A					R-134a					R-410A	R-134a	Units		
Building Water Entering Temp	°F	60	70	80	90	100	110	120	130	140					°F	Building Water Entering Temp
Building Water Leaving Temp	°F	70	80	90	100	110	120	130	140	150					°F	Building Water Leaving Temp
Heating Capacity	MBTUH	392.6	382.9	372.4	361.1	349.4	337.5	214.4	210.3	206.7					MBTUH	Cooling Capacity
Condenser Water Flow	GPM	78.5	76.6	74.5	72.2	69.9	67.5	42.9	42.1	41.3					GPM	Evaporator Water Flow
Evaporator Load	MBTUH	335.7	319.6	301.8	282.6	261.8	239.6	145.5	134.0	122.4					MBTUH	Condenser Load
Evaporator Water Flow	GPM	67.1	63.9	60.4	56.5	52.4	47.9	29.1	26.8	24.5					GPM	Condenser Water Flow
Power Input	kW	16.7	18.6	20.7	23.0	25.7	28.7	20.2	22.4	24.7					kW	Power Input
COP	-	6.90	6.04	5.28	4.60	3.99	3.45	3.11	2.76	2.45					-	EER
Source Water Leaving Temp	°F	40	40	40	40	40	40	40	40	40					°F	Source Water Leaving Temp

Source Water Entering Temp = 40°F	HEATING MODE										COOLING MODE					
	Units	R-410A					R-134a					R-410A	R-134a	Units		
Building Water Entering Temp	°F	60	70	80	90	100	110	120	130						°F	Building Water Entering Temp
Building Water Leaving Temp	°F	70	80	90	100	110	120	130	140						°F	Building Water Leaving Temp
Heating Capacity	MBTUH	330.8	323.6	315.8	307.7	299.7	290.6	181.4	179.2						MBTUH	Cooling Capacity
Condenser Water Flow	GPM	66.2	64.7	63.2	61.5	59.9	58.1	36.3	35.8						GPM	Evaporator Water Flow
Evaporator Load	MBTUH	274.3	260.6	245.7	229.5	212.1	193.5	114.2	104.9						MBTUH	Condenser Load
Evaporator Water Flow	GPM	54.9	52.1	49.1	45.9	42.4	38.7	22.8	21.0						GPM	Condenser Water Flow
Power Input	kW	16.6	18.5	20.6	22.9	25.7	28.5	19.7	21.8						kW	Power Input
COP	-	5.85	5.13	4.50	3.93	3.42	2.99	2.70	2.41						-	EER
Source Water Leaving Temp	°F	30	30	30	30	30	30	30	30						°F	Source Water Leaving Temp

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H H Systems, INC.  
**Water-to-Water Heat Pumps**  
**SS 25 Data Sheet**