

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					203.0	193.8	129.4	124.9	120.4	123.0	81.3	MBTUH	Cooling Capacity	
Condenser Water Flow	GPM					40.6	38.8	25.9	25.0	24.1	24.6	16.3	GPM	Evaporator Water Flow	
Evaporator Load	MBTUH					167.4	154.5	102.8	95.1	87.0	153.8	100.2	MBTUH	Condenser Load	
Evaporator Water Flow	GPM					33.5	30.9	20.6	19.0	17.4	30.8	20.0	GPM	Condenser Water Flow	
Power Input	kW					10.4	11.5	7.8	8.7	9.8	9.0	5.6	kW	Power Input	
COP	-					5.71	4.94	4.87	4.19	3.60	13.62	14.64	-	EER	
Source Water Leaving Temp	°F					80	80	80	80	80	100	100	°F	Source Water Leaving Temp	

Source Water Entering Temp = 80°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					211.9	203.0	193.8	129.4	124.9	120.4	131.1	85.7	MBTUH	Cooling Capacity
Condenser Water Flow	GPM					42.4	40.6	38.8	25.9	25.0	24.1	26.2	17.1	GPM	Evaporator Water Flow
Evaporator Load	MBTUH					179.5	167.4	154.5	102.8	95.1	87.0	159.0	102.7	MBTUH	Condenser Load
Evaporator Water Flow	GPM					35.9	33.5	30.9	20.6	19.0	17.4	31.8	20.5	GPM	Condenser Water Flow
Power Input	kW					9.5	10.4	11.5	7.8	8.7	9.8	8.2	5.0	kW	Power Input
COP	-					6.55	5.71	4.94	4.87	4.19	3.60	16.04	17.17	-	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					203.4	195.8	187.8	179.7	119.2	115.3	111.5	138.6	89.3	MBTUH	Cooling Capacity
Condenser Water Flow	GPM					40.7	39.2	37.6	35.9	23.8	23.1	22.3	27.7	17.9	GPM	Evaporator Water Flow
Evaporator Load	MBTUH					174.3	163.9	152.7	140.8	92.6	85.5	78.0	163.9	104.8	MBTUH	Condenser Load
Evaporator Water Flow	GPM					34.9	32.8	30.5	28.2	18.5	17.1	15.6	32.8	21.0	GPM	Condenser Water Flow
Power Input	kW					8.5	9.3	10.3	11.4	7.8	8.7	9.8	7.4	4.5	kW	Power Input
COP	-					7.00	6.14	5.35	4.62	4.48	3.87	3.33	18.69	19.66	-	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					178.4	172.7	166.8	160.6	154.3	101.0	98.2	95.5			MBTUH	Cooling Capacity
Condenser Water Flow	GPM					35.7	34.5	33.4	32.1	30.9	20.2	19.6	19.1			GPM	Evaporator Water Flow
Evaporator Load	MBTUH					152.7	144.5	135.6	126.2	116.0	74.4	68.4	62.1			MBTUH	Condenser Load
Evaporator Water Flow	GPM					30.5	28.9	27.1	25.2	23.2	14.9	13.7	12.4			GPM	Condenser Water Flow
Power Input	kW					7.5	8.3	9.1	10.1	11.2	7.8	8.7	9.8			kW	Power Input
COP	-					6.95	6.11	5.36	4.66	4.03	3.80	3.30	2.86			-	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	154.5	150.5	146.2	141.7	137.1	132.5	85.4	83.5	81.8			MBTUH	Cooling Capacity	
Evaporator Load	MBTUH	131.9	125.5	118.6	111.2	103.2	94.6	58.9	53.9	48.6			MBTUH	Condenser Load	
Evaporator Water Flow	GPM	26.4	25.1	23.7	22.2	20.6	18.9	11.8	10.8	9.7			GPM	Condenser Water Flow	
Power Input	kW	6.6	7.3	8.1	8.9	9.9	11.1	7.7	8.7	9.7			kW	Power Input	
COP	-	6.84	6.03	5.30	4.64	4.04	3.50	3.23	2.82	2.46			-	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	129.5	126.5	123.4	120.2	117.0	113.8	72.1	71.1				MBTUH	Cooling Capacity	
Condenser Water Flow	GPM	25.9	25.3	24.7	24.0	23.4	22.8	14.4	14.2				GPM	Evaporator Water Flow	
Evaporator Load	MBTUH	107.5	102.1	96.4	90.2	83.5	76.2	45.8	41.7				MBTUH	Condenser Load	
Evaporator Water Flow	GPM	21.5	20.4	19.3	18.0	16.7	15.2	9.2	8.3				GPM	Condenser Water Flow	
Power Input	kW	6.4	7.1	7.9	8.8	9.8	11.0	7.7	8.6				kW	Power Input	
COP	-	5.89	5.19	4.57	4.01	3.49	3.03	2.75	2.42				-	EER	
Source Water Leaving Temp	°F	30	30	30	30	30	30	30	30				°F	Source Water Leaving Temp	

Note: In View of Continuous Product Improvements, design and specification are subject to change without notice. EEE can accept no responsibility for possible errors in catalogues, brochures and other printed material.



ENVIRONMENTALLY ENGINEERED EQUIPMENT, INC.

Water-to-Water Heat Pumps SS 10 Data Sheet

