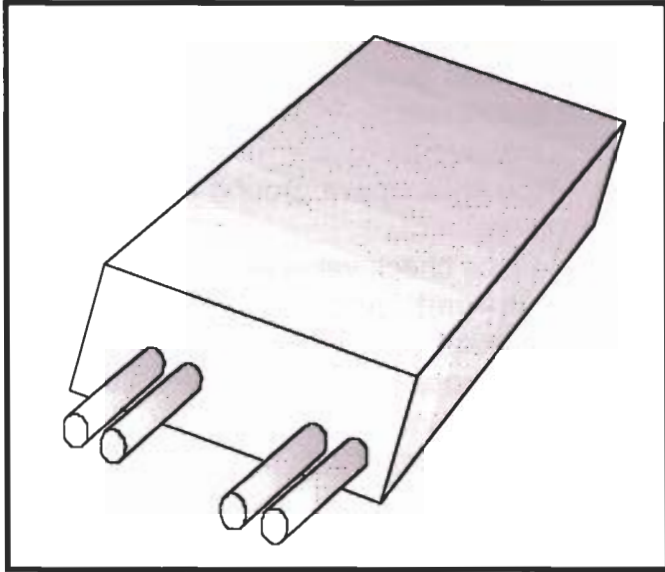


# FREE HOT WATER!

from the wasted heat of the air conditioner or refrigeration  
**HEAT RECOVERY DESUPERHEATERS • 5 to 20 TONS**



Heat Recovery Hot Refrigerant Desuperheater Units, (HRU) recover wasted heat normally exhausted from the condenser of the air conditioning or refrigeration units. The HRU removes heat from the refrigerant (typically 150° to 210° F) and transfers it through a heat exchanger to the domestic or process water. A pump moves the water from your hot water storage tank to the HRU and back to the tank.

Desuperheating saves energy and money by heating water and improving compressor efficiency. Imagine! “Free Hot Water” and air conditioning efficiency improved by about 10% during operation.

The HRU will provide about 6 to 8 gallons of hot water per ton per hour of air conditioning or up to 60 gallons per hour from a 7-1/2 ton A/C. Virtually any application that has central air conditioning and a moderate to heavy use of hot water will realize significant savings.

## TYPICAL SAVINGS ESTIMATES

	NATURAL GAS @ \$.50/THERM	PROPANE @ \$.90/GAL	ELECTRICITY @ \$.07/KWH
<b>FULL SERVICE RESTAURANT</b> 500 Meals/Day	\$160.00/mo.	\$310.00/mo.	\$461.70/mo
<b>JR/SENIOR HIGH SCHOOL</b> 1000 Students	\$172.00/mo.	\$331.00/mo.	\$492.80/mo.
<b>MOTELS/HOTELS</b> 150 Rooms	\$193.50/mo	\$372.60/mo	\$554.40/mo.

Actual savings may vary. Consult factory for detailed audit and sizing form.

# MECHANICAL SPECIFICATIONS

# INSTALLATION

Pump - Taco 008B water lubricated, water cooled, 3250 RPM, 1/25 HP, 230/60/1, Max 16 GPM, Max Head 14 feet. U.L. listed, impedance protected, cartridge type impeller, Bronze casing, non-metallic impeller, ceramic shaft. 125 psi, 220° F max temp. rating, OR-Grundfos UP15-42, 1/25 HP, 230/60/1, max 19 gpm, Max Head 16 feet, U.L. Listed Stainless Steel inlet cone, impeller, rotor can, ceramic shaft and radial bearings, 145psi, max fluid temp. 140° F.

Heat Exchanger - All copper, counter flow, double wall and vented for potable water application, insulated; operating pressure, 450 psig, refrigerant, 150 psig water side (for use with R-12-22,500 and 502.)

Cabinet - .04 Aluminum, with Biege baked enamel finish.

Controls - Water limit, adjustable 120° to 160° F; Refrigerant low limit 130° F.

Specifications subject to change without notice.

Refrigerant - Run copper hot gas line from the A/C compressor to the HRU and back to the condenser coil. See installation instruction for line sizing. (Never reduce hot gas line size below that in the A/C.)

- On heat pumps: run the line from the compressor to the HRU and back to the heat pump ahead of the 4-way reversing valve.

- When possible install HRU above compressor

- Insulate all lines.

Water - Run lines above ground or roof on 4x4" blocks.

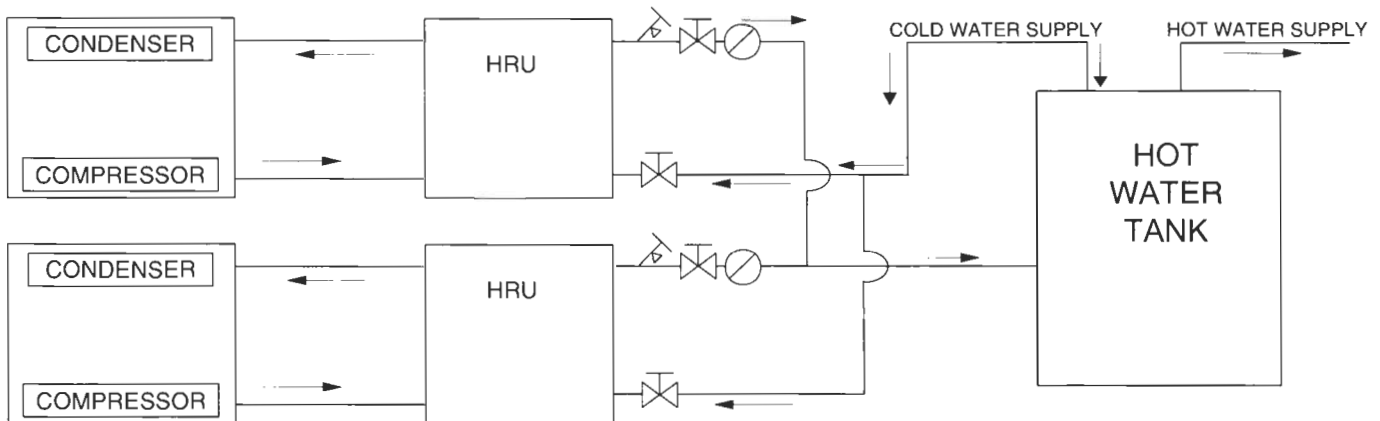
- Place check valve in water line (out) on multi-unit applications to prevent recirculation.

- Use copper pipe for longest life.

Cabinet - May be installed horizontally or vertically. - (Never install with pump or access door facing down.)

SEE INSTALLATION INSTRUCTIONS FOR GREATER DETAIL

## TYPICAL MULTI-UNIT INSTALLATION



MODELS	A/C SIZE TONS	REF CIR	STD REF	WATER LINE (NOMINAL <sup>3</sup> )	ESTIMATED CAPACITY BTU	G.P.M. @ FT. HD.	APPROX. WEIGHT	CABINET DIMENSIONS <sup>5, 6/7</sup>		
								LENGTH	WIDTH	HEIGHT
C060DW	5	1	5/8"	1/2"	19,000	2@8'	14#	16"	9"	6"
C090DW	7.5	1	7/8"	5/8"	28,500	3@7'	26#	22"	19"	6"
C090DWD	7.5	2	5/8"	5/8"	28,500	3@7'	26#	22"	19"	6"
C120DW	10	1	7/8"	3/4"	39,500	4@14'	27#	22"	19"	6"
C120DWD	10	2	5/8"	3/4"	39,500	4@14'	27#	22"	19"	6"
C180DW	15	1	1-1/8"	3/4"	59,000	6@13'	38#	22"	19"	9"
C180DWD	15	2	7/8"	3/4"	59,000	6@13'	38#	22"	19"	9"
C240DW	20	1	1-1/8"	3/4"	79,000	8@11'	40#	22"	19"	9"
C240DWD	20	2	7/8"	3/4"	79,000	8@11'	40#	22"	19"	9"

Available From:

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