



# C-SERIES

Light Commercial Desuperheaters  
6 to 20 Tons



The Heat Exchanger Application Specialists



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## C-Series Light Commercial Desuperheater

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### Saves Energy and Reduces Operating Cost

Doucette Industries light commercial heat recovery unit captures waste heat discharged from the refrigerant cycle in an air conditioner or condensing unit and transfers that heat into your water storage tank. This free or low cost hot water can be used for domestic or service use, saving you money on fossil fuel heating. Applications include restaurants, cleaning and laundry services, manufacturing or any business that requires additional hot water on a daily basis.

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### Construction

The Doucette high-efficiency all-copper heat exchanger uses vented double-wall construction to preventing cross contamination of the domestic water from the air conditioner's refrigerant and oil. Chemically cleanable coils extend the life of the unit while maintaining its high performance operation. The unit comes with factory wired and preset controls, water lubricated low wattage circulator. It has fully automatic operation and uses UL approved components. Installation is quick and allows the sturdy mill-finish aluminum cabinet to be installed outdoor or inside in a horizontal or vertical orientation.





**Reduces the Need for Fossil Fuel Heating**

The C-Series desuperheater will provide approximately 5 gallons of hot water per ton per hour of air conditioning or up to 40 gallons of hot water per hour from a 7-1/2 ton air conditioning unit. Virtually any application that has central air conditioning and a moderate to heavy need of hot water will realize significant savings.

**Typical Savings Estimate**

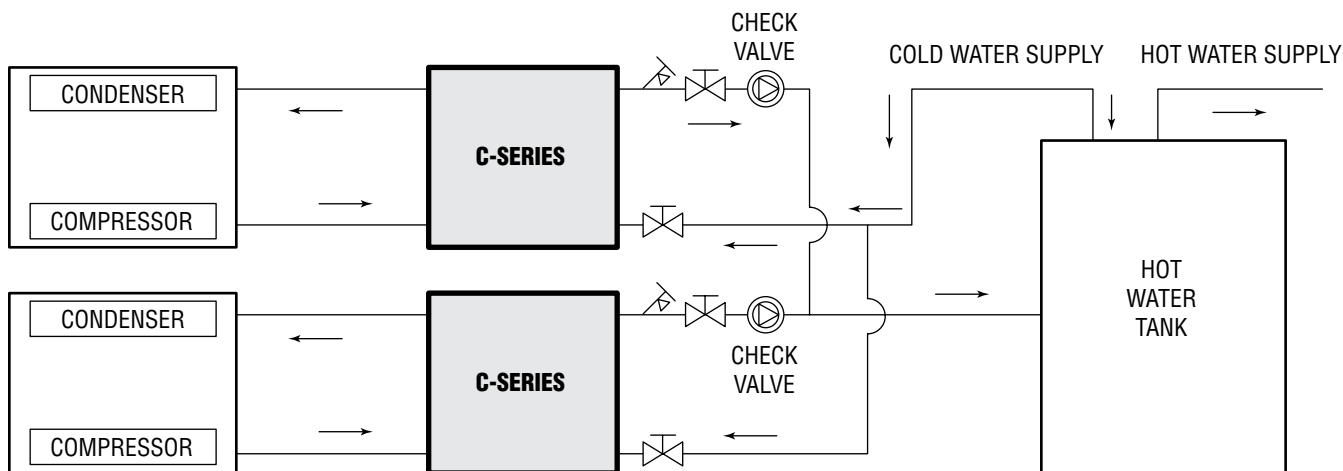
	Natural Gas @ \$1.65/Therm	Propane @ \$3.90/Gal.	Electricity @ \$.12/KWH
Full-Service Restaurant (500 meals/Day)	\$377.00/mo.	\$960.00/mo.	\$565.00/mo.
Jr./Sr. High School (1,000 Students)	\$405.00/mo.	\$1,025.00/mo.	\$603.00/mo.
Motels/Hotels (150 Rooms)	\$456.00/mo.	\$1,153.00/mo.	\$679.00/mo.

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

**Improves Air Conditioner Performance**

Not only does the heat recovery unit substantially reduce the amount of energy required to provide domestic or service hot water, but it also improves the cooling efficiency of the air conditioner or condensing unit while it is operating. By reducing the compressor operating pressure, the heat exchanger extends the life of the a/c system. These light commercial models are designed to operate with systems of 6 to 20 tons cooling capacity.

**Typical Multi-Unit Installation**



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## Technical Specs

- 230 volt wiring for easy connection to compressor contactor
- Factory wired and preset controls
- Grounded electrical circuit
- Fully automatic operation
- UL approved components
- Water lubricated low wattage circulator
- High-efficiency all-copper vented double-wall heat exchanger
- Sturdy mill-finish aluminum cabinet for outdoor or indoor use

## Ordering Information

Item No.	TR	Estimated Capacity	No. Circuits	Cleanability	Refrig. Conn.	Water Conn.	Length	Width	Height	Weight
C120DW	6-10 Tons	25,000 Btu/hr	1	Chemical	7/8" OD	7/8" OD	22"	21"	6"	32 lbs.
C120DWD	6-10 Tons	25,000 Btu/hr	2	Chemical	1/2" OD	7/8" OD	22"	21"	6"	32 lbs.
C240DW	11-20 Tons	50,000 Btu/hr	1	Chemical	1-1/8" OD	7/8" OD	27"	21"	10"	60 lbs.
C240DWD	11-20 Tons	50,000 Btu/hr	2	Chemical	7/8" OD	7/8" OD	27"	21"	10"	60 lbs.
C240DWQ	11-20 Tons	50,000 Btu/hr	4	Chemical	1/2" OD	7/8" OD	27"	21"	10"	60 lbs.

### Dealer in Jamaica for Doucette Industries

As a dealer we find the service from Doucette, in particular our contact Jim, of the highest quality from our very first installation in April 2013, which he supervised. The readily available technical assistance from Doucette gives us that assurance which we convey to our clients.

We recommend the HRU to any person or organisation that is serious about improving their energy efficiency in the production of hot water utilising the otherwise wasted heat from air-conditioning and refrigeration units.

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