

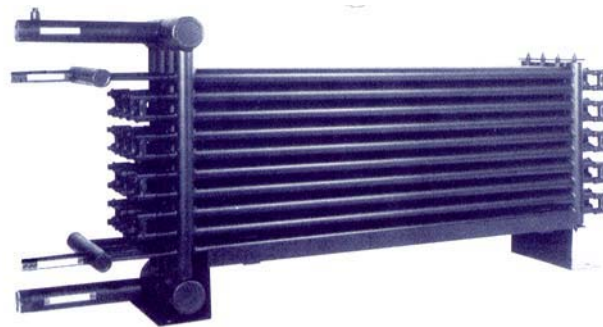
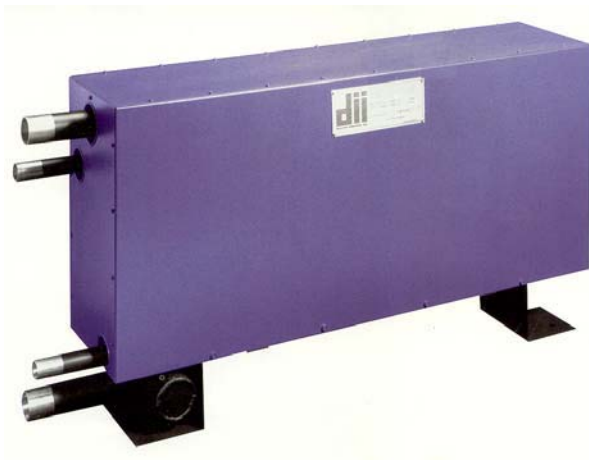


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DESUPERHEATERS

Heat Exchangers For Free Hot Water



Ammonia

The Doucette CADS Extends Your Hot Water Capability Inexpensively

- Lowers hot water heating costs by utilizing waste heat
- Heats potable water up to 60 °C
- Reduces refrigeration operating costs 3% to 5%
- Typical Payback Period of Two Years or Less
- Vented double-wall construction prevents cross contamination
- UL and USDA Listed with CRN

The Doucette Industries CADS Series Ammonia Desuperheater/Water Heater™ delivers cost-effective energy savings by heating potable water through the recovery of waste heat from industrial refrigeration systems. The CADS unit supplements potable hot water heating used for process applications by capturing “superheat” which accounts for approximately 10% to 15% of the total system heat of rejection. The CADS Series can effectively heat the water up to 60 degrees C.

- Food Processing Plants
- Food Distribution Plants
- Beverage Plants
- Ice Rinks



Field-Proven Performance and Reliability

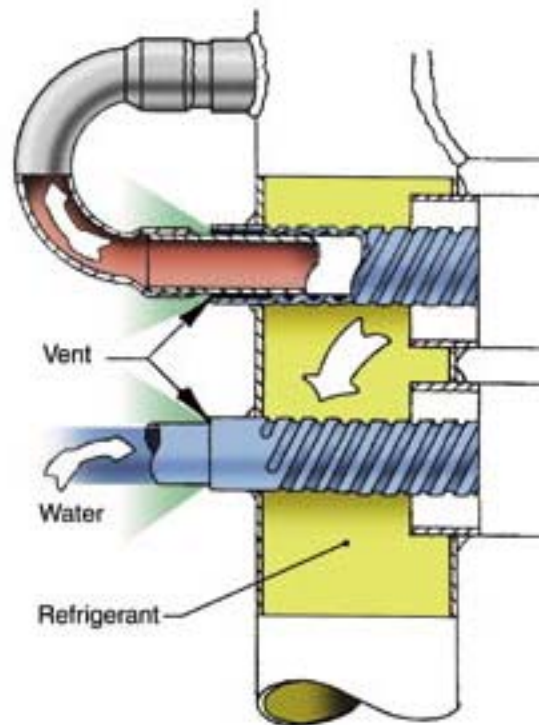
The CADS Series utilizes efficient counterflow design with low refrigerant pressure drop for efficient operation. Vented double-wall 304L Stainless Steel tube construction guarantees Desuperheater compliance with all code requirements and prevents cross-contamination between working fluids. The CADS Series includes positive oil and liquid refrigerant return design for compressor protection, and the unit is equipped with high pressure water fittings for mechanical cleaning.

Improve Refrigeration System Performance

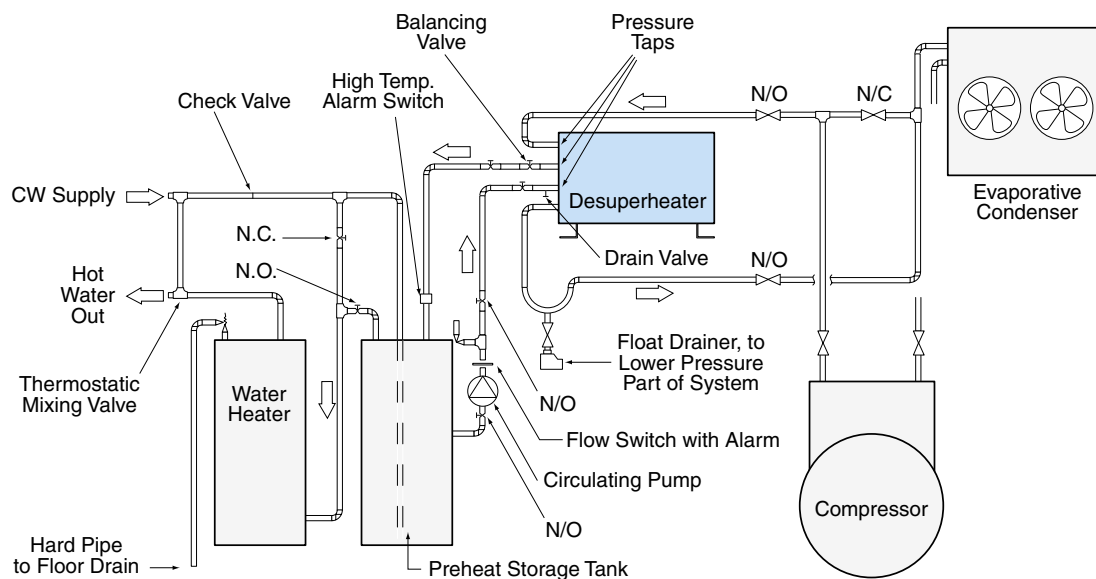
Installation of a Doucette Desuperheater/Water Heater™ into your existing cooling configuration is equivalent to adding 15% more condenser capacity. The result is a 3% to 5% reduction in refrigeration operating costs, enhanced condenser performance and prolonged compressor life.

Vented Double Wall for Safety

The CADS series of ammonia Desuperheater/ Water Heater tubes are designed with vented double-wall stainless steel construction for an added measure of safety and reliability. The double-wall system prevents contamination of the potable water from the refrigeration circuit. Each tube is fluted such that a vent path is created between the outer and inner tube. If a tube leak should ever occur, the gas vents to the atmosphere for easy detection. This double protection system is endorsed by the FDA and USDA for food protection.



Applicable to All Brands of Ammonia Refrigeration Equipment



Doucette Desuperheaters can be used for hot water with any industrial refrigeration system where waste heat is available. The unit is designed to integrate with all brands of compressors including: Frick, FES, Vilter, Mycom and others.

The CADS installs conveniently into a refrigeration system's existing refrigerant piping. The unit is installed in-line with the compressor discharge refrigerant piping in series with the existing condensers. The compact design of Doucette's Desuperheater permits mounting in practically any location, and the unit comes with frame and brackets. An optional indoor/outdoor insulated cabinet is typically supplied.

Doucette: Refrigeration Application Specialists

Doucette has staked its reputation in the heat recovery industry as a leader for more than a decade with thousands of systems installed worldwide. Their Ammonia Desuperheater/Water Heaters™ rely on proven technology and over 16 years of field experience for high performance operation, ensuring product safety and reliability.

CADS Desuperheater/Water Heater Physical Data

Ice Rinks

dii Model Number	NH3* TR at -12/35C	Litres M in Potable Water 15-43C	Length (mm)	Width (mm)	Height (mm)	Refrig. B.W.	Water N.P.T.	Shipping Weight (Kg)
CADS 5.5	25	4.69	1549	95.0	625	31.4	16.0	50
CADS 11M5.5	50	9.31	1765	184	711	50.8	19.0	100
CADS 16.5M5.5	75	13.9	1765	266	711	62	19.0	150
CADS 22M5.5	100	18.6	1765	349	711	62	25.4	200
CADS 27.5M5.5	125	23.3	1765	432	711	76.2	25.4	250
CADS 33M5.5	150	27.9	1765	514	711	76.2	31.4	300
CADS 38.5M5.5	175	32.6	1765	723	819	101.6	31.4	395
CADS 44M5.5	200	37.2	1765	806	819	101.6	31.4	450
CADS 49.5M5.5	225	41.9	1775	889	819	101.6	37.4	507
CADS 55M5.5	250	46.6	1775	971	819	101.6	37.4	564
CADS 60.5M5.5	275	51.2	1775	1079	832	127	37.4	620
CADS 66M5.5	300	55.9	1775	1162	832	127	37.4	675
CADS 71.5M5.5	325	60.5	1784	1245	832	127	50.8	732

Food Processing

CADS 8	25	6.9	1524	95.0	833	31.4	16.0	73
CADS 16M8	50	13.8	1724	184	914	50.8	19.0	145
CADS 24M8	75	20.7	1724	266	914	62	19.0	218
CADS 32M8	100	27.6	1724	349	914	62	25.4	291
CADS 40M8	125	34.4	1724	432	914	76.2	25.4	364
CADS 48M8	150	41.3	1733	514	914	76.2	31.4	436
CADS 56M8	175	48.2	1733	723	1024	101.6	31.4	573
CADS 64M8	200	55.1	1733	806	1024	101.6	31.4	655
CADS 72M8	225	62.0	1733	889	1024	101.6	37.4	736
CADS 80M8	250	68.9	1733	971	1024	101.6	37.4	818
CADS 88M8	275	75.8	1733	1079	1024	124	37.4	900
CADS 96M8	300	82.7	1733	1162	1024	127	37.4	982
CADS 104M8	325	89.6	1733	1245	1024	127	50.8	1064