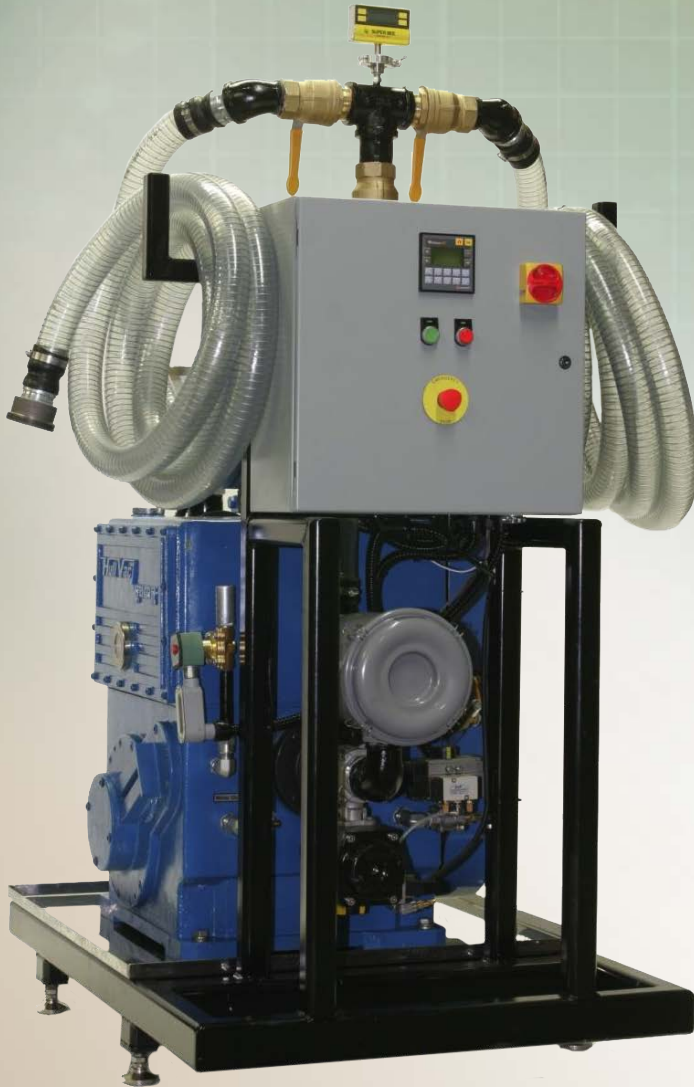


# HullVac™

## Ram-Dry™ 2180 Water Removal System Heat Exchanger dehydration made easy.



**Put nature to work** – Ram-Dry™ technology uses vacuum to boil water at ambient temperature. Water vapor travels through the pump and condenses back to liquid for disposal.

**One connection only** – The Ram-Dry™ machine connects at one heat exchanger port and draws water from the entire shell. Optional twin hose assemblies allow connection at two ports to reduce drying time. Ports may be separated by up to 40 feet.

**100% water removal** – Trapped water in all locations including tube fins and other non-draining locations is completely removed.

**Combat rust and microbial influenced corrosion** – Removing liquid water and maintaining a dry condition stops oxidation and eliminates conditions where microbes thrive.

**Automatic controls work hard so you don't have to.**

**Automatic water drain** – Water drains into a collection canister while sealing oil stays in the vacuum pump.

**End point signal** – A dry condition message displays when no liquid water is present.

**Whole system protection** – A variable frequency drive prevents motor overload during cold weather starting and prevents accidental over-temperature operation.

## The Next Generation

Get all the improvements in one durable, reliable, tough pump.

## RAM-DRY 2180 SPECIFICATIONS

<b>Max Rate* 20 Torr</b>	<b>L x W x H</b>	<b>Weight</b>	<b>HP</b>	<b>Cooling</b>	<b>Air</b>
32 Gal/Day	48" x 32" x 66"	1700 Lbs	12	1.5 Gal/Min	90 PSI
<b>Free Air Displacement</b>		180 CFM	<b>Rotation Speed</b>		555 RPM
<b>Vacuum Stages</b>		2	<b>Oil Capacity</b>		6.5 Gallons
<b>Ultimate Pressure (Trapped Gauge)</b>		0.0005 Torr	<b>Weight</b>		1400 Lbs
<b>Ultimate Pressure Gas Ballast</b>		0.005 Torr	<b>Inlet Connection</b>		3" ANSI Flange
<b>Motor Power</b>		10 HP	<b>Outlet Connection</b>		2.5" NPT
<b>Voltage</b>		208/230/460/575	<b>Cooling Requirement</b>		2 Gal/Min

Max Rate\* - Valid when transferred heat maintains trapped water at 72° F, and system has zero air leakage. Higher removal rate with higher water temperature. Lower removal rate with lower water temperature or air leakage.

### STANDARD FEATURES

#### Vacuum Pump

HullVac Two stage Pump maintains high efficiency even while pumping water. Standard features include:

- Automatic Water Drain - separates water from the pump sealing oil
- Coalescing Filter - removes oil drops from the exhaust stream
- Anti-suck-back Assembly - isolates the vacuum pump whenever power is shut off keeping sealing oil in the pump

#### Control System

Control panel with programmable logic controller includes three phase plug, electric cord and all operating components:

- Pump Start / Stop / E-stop
- Variable Frequency Drive
- Operating temperature control
- Water drain control
- Automatic inlet vent
- Vacuum and temperature display

#### Frame

Pallet-jack movable steel frame contains all components including vacuum pump, control panel, hoses and electric cord. Frame is sized for easy movement through standard doorways and includes the following:

- House-keeping pan
- Leveler feet
- Vacuum hose caddies

### OPTIONAL FEATURES

#### Vessel Heating System

A hot air system enables maximum drying rate during the entire process by providing evaporation energy.

#### On-board Cooling

A closed-loop water cooling system complete with radiator, fan and water pump eliminates the need for an external water cooling source.

#### On-board Air Compressor

An air compressor provides actuation air to power inlet isolation and water flow valves.

DEKKER, a privately-held, ISO 9001 certified company headquartered in Michigan City, Indiana, is one of the top vacuum equipment suppliers in the industry. DEKKER built its reputation with some of the most efficient and reliable products on the market, a staff known for its expertise, and a solutions-based approach to customer applications based on hundreds of installations.



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