

## SPRAY DEAERATORS

MODEL	VERTICAL SPRAY (VS)	VERTICAL SPRAY PKG (VS - PKG)	HORIZONTAL SPRAY (HS)	HORIZONTAL SPRAY PKG (HS-PKG)
DESIGN	STANDARD	STANDARD	STANDARD	OPTIONAL
PUMP PKG	NO	YES	NO	YES
TANKS (S)	ONE TANK	ONE TANK	ONE TANK	ONE TANK
CONFIGURATION HEATER	VERTICAL	VERTICAL	HORIZONTAL	HORIZONTAL
CONFIGURATION STORAGE	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL
CAPACITY #/HR	260,000	120,000	350,000	125,000
STORAGE (MIN)	5-10	5-10	10-20	10-20
MEETS HEI REQUIREMENTS	NO	NO	NO	NO
PERFORMANCE O <sup>2</sup> GUARANTEE	.005 CC/L	.005 CC/L	.005 CC/L	.005 CC/L
PERFORMANCE RANGE	20-100%	20-100%	20-100%	20-100%
LIFE SPAN (YEARS)	10-20	10-20	10-20	10-20

## TRAY DEAERATORS

MODEL	VERTICAL TRAY (VT)	VERTICAL TRAY PKG (VT - PKG)	TANK CAR (TC)	TANK CAR PKG (TC-PKG)	BDS	CUSTOM DS	CUSTOM HH
DESIGN	STANDARD	STANDARD	STANDARD	STANDARD	CUSTOM	CUSTOM	CUSTOM
PUMP PKG	NO	YES	NO	YES	NO	NO	NO
TANKS (S)	ONE TANK	ONE TANK	ONE TANK	ONE TANK	TWO TANK	TWO TANK	TWO TANK
CONFIGURATION HEATER	VERTICAL	VERTICAL	HORIZONTAL	HORIZONTAL	VERTICAL	VERTICAL	HORIZONTAL
CONFIGURATION STORAGE	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
CAPACITY #/HR	200,000	75,000	200,000	125,000	250,000	800,000	16,000,000
STORAGE (MIN)	5-10	5-10	10-20	10-20	10-20	10-20	5-20
MEETS HEI REQUIREMENTS	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
PERFORMANCE O <sup>2</sup> GUARANTEE	.005 CC/L	.005 CC/L	.005 CC/L	.005 CC/L	.005 CC/L	.005 CC/L	.005 CC/L
PERFORMANCE RANGE	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
LIFE SPAN (YEARS)	20-40	20-40	20-40	20-40	20-40	20-40	20-40



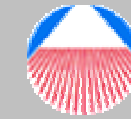
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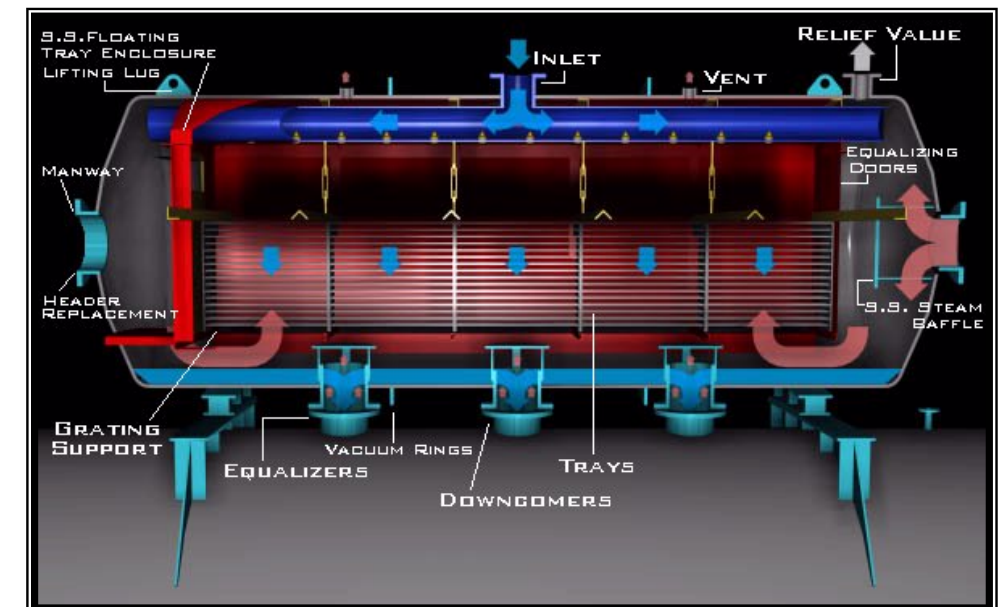
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# KANSAS CITY DEAERATOR

## STANDARD PRODUCT GUIDE



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## DESCRIPTION OF PRODUCTS

### About the Catalog...

*Kansas City Deaerator Company provides custom deaerators along with pre-engineered spray and tray deaerators as an economical alternative, spare parts, retrofits and field service. Listed below you will find brief descriptions of what is included in this catalog. Detailed product information on materials, ratings, dimensions, weights and applications can be found in the corresponding sections.*

### SPRAY DEAERATORS

#### **VS VERTICAL SPRAY DEAERATOR(SINGLE VERTICAL TANK)**

##### **VS - VERTICAL "SPRAY" DEAERATOR (NO PUMPS)**

Capacity: up to 260,000 #/HR Standard Units; Custom Units up to 800,000 #/HR

##### **VS PKG – VERTICAL "SPRAY" DEAERATOR W/PUMP PACKAGE**

Capacity: up to 120,000 #/HR Standard Units; Custom Units: up to 800,000 #/HR

\*Application: Commercial, light industrial where cost is the most important factor.

Minimal plan area utilized.

#### **HS – HORIZONTAL SPRAY DEAERATOR(SINGLE HORIZONTAL TANK)**

##### **HS - HORIZONTAL "SPRAY" DEAERATOR (NO PUMPS)**

Capacity: up to 350,000 #/HR Standard Units; Custom Units up to 2,000,000 #/HR

##### **HS PKG – HORIZONTAL "SPRAY" DEAERATOR W/PUMP PACKAGE**

Capacity: up to 125,000 #/HR Standard Units; Custom Units: up to 500,000 #/HR

\*Application: Commercial, light industrial where cost or low headroom are important.

### TRAY DEAERATORS

#### **VT – VERTICAL TRAY DEAERATOR (SINGLE VERTICAL TANK)**

##### **VT - VERTICAL "TRAY" DEAERATOR (NO PUMPS)**

Capacity: up to 200,000 #/HR Standard Units; Custom Units up to 800,000 #/HR

##### **VT PKG – VERTICAL TRAY DEAERATOR W/PUMP PACKAGE**

Capacity: up to 75,000 #/HR Standard Units; Custom Units: up to 800,000 #/HR

\*Application: Power Plant quality, can be designed to HEI requirements, tray unit with minimal plan area, maximum turndown and a longer life.

#### **TC – TANK CAR TRAY DEAERATOR (TWO TANK WELDED)**

##### **TC - TANK CAR "TRAY" DEAERATOR (NO PUMPS)**

Capacity: up to 200,000 #/HR Standard Units; Custom Units up to 250,000 #/HR

##### **TC PKG – TANK CAR "TRAY" DEAERATOR W/PUMP PACKAGE**

Capacity: up to 125,000 #/HR Standard Units; Custom Units up to 250,000 #/HR

\*Application: Used in all areas where high quality and Power Plant grade is required. Can be designed to HEI requirements, long life and low turndown.

#### **BDS – BOLTED DOUBLE SHELL "TRAY" DEAERATOR (BOLTED VERTICAL HEATER W/HORIZONTAL STORAGE)**

##### **BDS - BOLTED DOUBLE SHELL "TRAY" DEAERATOR (NO PUMPS)**

Capacity: up to 200,000 #/HR Standard Units; Custom Units up to 250,000 #/HR

##### **BDS PKG – BOLTED DOUBLE SHELL "TRAY" DEAERATOR W/PUMP PACKAGE**

Capacity: up to 125,000 #/HR Standard Units; Custom Units: up to 250,000 #/HR

\*Application: Can be designed to HEI requirements, tray unit shipped in two pieces for easier transport and installation. Power Plant quality good for utilities, central stations, etc.

### CUSTOM DEAERATORS

#### **DS – DOUBLE SHELL "TRAY" DEAERATOR (HEATER WELDED TO HORIZONTAL STORAGE)**

##### **DS - DOUBLE SHELL "TRAY" DEAERATOR (NO PUMPS)**

Custom Units up to 800,000 #/HR

##### **DS PKG – DOUBLE SHELL "TRAY" DEAERATOR W/PUMP PACKAGE**

Custom Units: up to 800,000 #/HR

\*Application: All applications less than 1,000,000 #/HR with Power Plant quality grade, can be designed to meet HEI requirements, tray unit shipped in two pieces for easier transport and installation. Power Plant quality good for utilities, central stations etc.

#### **HH – HORIZONTAL HEATER "TRAY" DEAERATOR (HORIZONTAL HEATER WELDED TO HORIZONTAL STORAGE)**

##### **HH – HORIZONTAL HEATER "TRAY" DEAERATOR (NO PUMPS)**

Custom Units up to 16,000,000 #/HR

##### **HH PKG – HORIZONTAL HEATER "TRAY" DEAERATOR W/PUMP PACKAGE**

Custom Units: up to 16,000,000 #/HR

\*Application: Can be designed to HEI requirements, tray unit shipped in two pieces for easier shipment and installation. Power Plant quality good for utilities, central stations etc.

### ADDITIONAL ITEMS

#### **ACCESSORIES**

Gauge Glass, Level Alarm, Water Inlet Valve, Level Switch, Thermometer, Pressure Gauge, Relief Valve, Vent Valve, Vacuum Breaker, Pressure Reducing Valve, Overflow Trap

#### **PUMP PACKAGE**

Stand with simplex, duplex or triplex pumps up to 331 GPM (165,000#/hr), 750 ft head, 300 PSI as standard.

Custom units available

#### **ANCILLARY EQUIPMENT**

**IB:** Intermittent Blowdown Flasket With Aftercooler

**CBHR:** Continuous Blowdown With Heat Recovery

#### **TECHNICAL**

Spray vs. Tray, Counterflow vs. Parallelfow

#### **AFTER MARKET**

Spray Valves and Trays for all deaerators

#### **COMMERCIAL**

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