

ROTATING SCRAPED SURFACE HEAT EXCHANGERS - HEAVY DUTY

HRS RHD SERIES



HRS R Series scraped surface heat exchanger is designed for challenging heat transfer applications in both sanitary and industrial applications.

In addition to the standard R series a heavy duty version is available. The HRS RHD Series has been developed for more demanding applications with extreme viscosities.

The RHD has all of the features and benefits of the standard R Series but with increased motor size and scraping rods. Extra mounting supports for the scrapers and motor enable the unit to be used under challenging conditions.

TECHNICAL DATA

APPLICATIONS

Viscous and Fouling Fluids
Heating
Cooling
Evaporation
Crystallization

SURFACE FINISH

External: Polished
Internal: <0.8 μ

STANDARD MATERIALS OF CONSTRUCTION

Service Side: AISI 304 Stainless Steel
Product Side: AISI 316L Stainless Steel
All other material options available

STANDARD DESIGN CONDITIONS

Service Side: 145 PSI/365°F
Product Side: 305 PSI/365°C

STANDARD CONNECTIONS

Service Side: Flange/Clamp
Product Side: Clamp
All flange & clamp types available

FEATURES

- Continuous scraping action enhances mixing of highly viscous products
- Spiral blade and scraper design reduces pressure drop, with improved heat transfer
- Multitube option for reduced footprint, energy consumption and operating costs
- Unique sealing system enables removal and replacement of individual tubes
- Scrapers are available in metal detectable material
- Multipass version available

RANGE

MODELS	LENGTHS (ft)	SURFACE AREA (ft ²)	SERVICE SIDE CONNECTION	PRODUCT SIDE CONNECTION	VOLUME PRODUCT SIDE (gal)	MOTOR SIZE (hp)
RHD 1/1 - RHD 1/2	3 - 6	4 - 8	2.5"	2.5"	2.1 - 4.4	10
RHD 3/1 - RHD 3/2	3 - 6	11 - 22	2.5"	2.5 - 3"	9.8 - 15.4	40
RHD 6/1 - RHD 6/2	3 - 6	23 - 45	3"	3 - 4"	19.7 - 30.7	74

Units can be installed vertically and horizontally. ASME version has matt external finish.

DESIGN CODE AND COMPLIANCE

PD 5500, PED 2014/68/EU, 2014/34/EU (ATEX), 2006/42/CE, ASME | FDA, 3-A, TR CU 032, DOSH Compliant