

HRS DTR SERIES

DOUBLE TUBE HEAT EXCHANGER FOR SLUDGE APPLICATIONS



The HRS DTR Series is complete stainless steel double tube design for sludge applications. The product flows through the inner tubes and the media fluid flows through the surrounding shell. The removable inner tube allows for effective cleaning of both shell and tube. Because of its geometry, the DTR Series is a true counter current heat exchanger. Using HRS corrugation technology, heat transfer and efficiency are increased over standard smooth tube heat exchangers. In addition, effects of fouling are minimized.

APPLICATIONS

Sludge Heating/Cooling
Sludge Pasteurization
Digester Heating
Sludge-to-Sludge Heat Recovery

MATERIALS OF CONSTRUCTION

Shell Side: AISI 316L/304 Stainless Steel
Tube Side: AISI 316L Stainless Steel

STANDARD CONNECTIONS

Shell Side: DIN Flange
Tube Side: DIN Flange

STANDARD DESIGN CONDITIONS

Shell Side: 10 barg/365°F
Tube Side: 10 barg/365°F

RANGE

Models:	Lengths (ft)	Surface Area (sq ft)	Shell Side Connection	Tube Side Connection	Max Flow Shell (gpm)	Max Flow Tubes (gpm)	Volume Shell Side (gal)	Volume Tube Side (gal)
DTR 51/25	10 – 20	4	1½"	½"	57	18	2	1
DTR 64/38	10 – 20	7	1½"	1"	75	44	3	2
DTR 76/51	10 – 20	10	1½"	1½"	79	79	4	3
DTR 104/64	10 – 20	12	2½"	2"	189	128	8	4
DTR 104/76	10 – 20	14	2½"	2½"	145	181	6	7
DTR 129/104	10 – 20	19	3"	3"	163	339	7	12
DTR 168/129	10 – 20	26	4"	4"	242	528	12	19

The surface area and volumes shown are for 20ft length models

SURFACE FINISH

External: Satin or Polished
Tube Side: Descaled

FEATURES

Bellow fitted to absorb differential expansion between shell and tube

Multiple units can be interconnected and mounted in a compact frame

Frame can be covered with protective plating and thermal insulation on request

