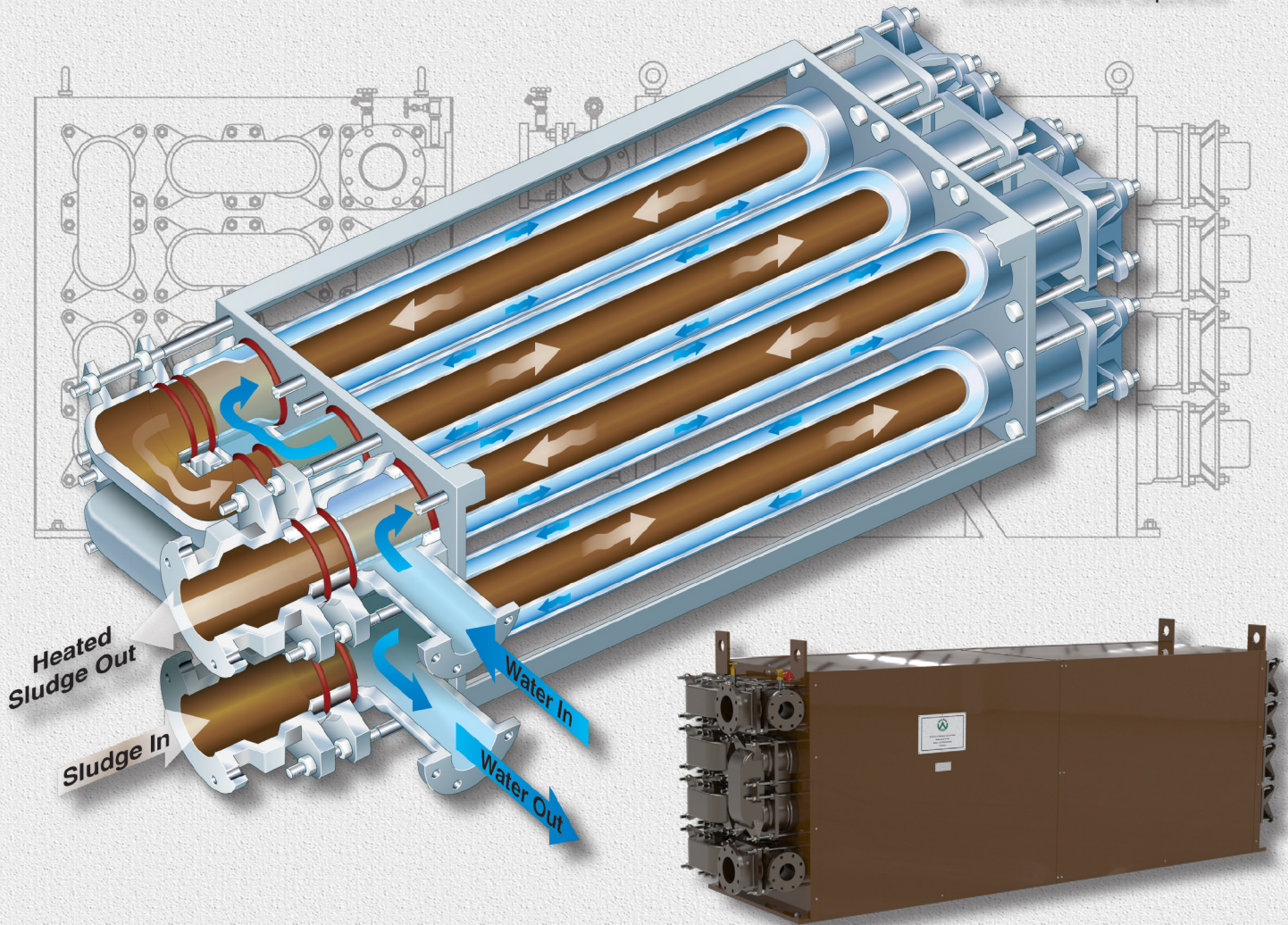


Water-to-Sludge Heat Exchanger



Division of McNish Corporation



Heat Digester Sludge Efficiently

The Walker Process® Type E Heat Exchanger is a concentric tube-in-tube design that utilizes counter-flow circulation of hot water and sludge to provide proven superior heat transfer with low headloss.

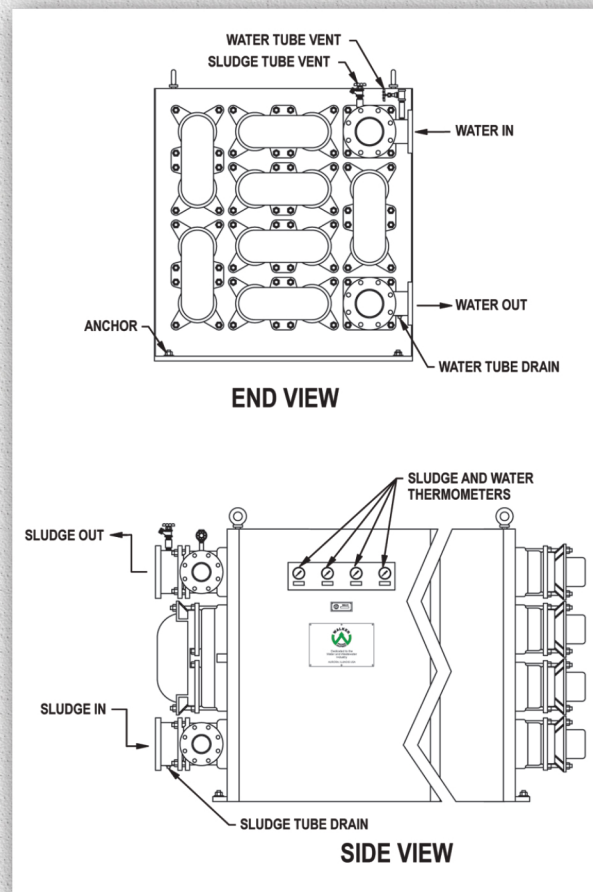
Water to Sludge Heat Exchanger By Walker Process:

- Provides controlled and efficient heating of sludge without overheating.
- Designed with counter current water/sludge flow to provide the most efficient heat transfer.
- Sludge tube end castings are removable for cleaning without draining the water side tubes.
- Low headloss/low energy.
- Exchangers comply with ASME pressure vessel code requirements and are stamped with the ASME "U" symbol.
- Fully shop assembled and tested for easy installation and startup.
- Many hundreds in use after decades of service including egg-shaped digester installations.

Stringent Adherence to Industry Standards

Walker Process® Water-to-Sludge Heat Exchangers are designed and manufactured in compliance with ASME Pressure Vessel Code and all units are stamped with the Unfired Pressure Vessel “U” symbol.

The Water-to-Sludge heat exchanger uses the same proven design features that have been developed and refined over the many decades this design has been in use.



Sizes (number of tubes)	Up to 24 tubes and up to 20ft. long. Variable stack configurations and inlet/outlet locations can be arranged to accommodate piping layout.
Pipe Diameters	Inner Sludge Tubes - 4" or 6" Outer Water Tubes - 6" or 8"
Sludge Passageways	3½" with 4" pipes. 4½" with 6" pipe (Standard). 6" with 6" pipe (Available).
Materials of Construction	ASME SA 53 Sch. 40 Carbon Steel Pipes ¾" ASTM A36 Carbon Steel End Plates ASME SA 278 Class 20 and 40 Cast Iron End Fittings. 6" 316 Stainless Steel Sludge Tubes and equivalent grade sludge adaptors are available.
Pressure Rating	30 psi standard. Up to 70 psi available.
Insulation	2" wrapped Fiberglass Insulation.
Enclosure	14 ga. Painted Steel Enclosure on sides and top.
Special Construction	High Pressure units available, up to 70 psi, for use with egg-shaped digesters.
Temperature Control	Non-flow-restrictive temperature sensors and dial thermometers to measure inlet and outlet sludge temperatures; thermocouple and Resistance Temperature Detector (RTD) for remote indication of parameters.
Other Features	Built-in water back-flushing connections. Easily removable end castings for inspections and servicing.

Walker Process Equipment

Division of McNish Corporation

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