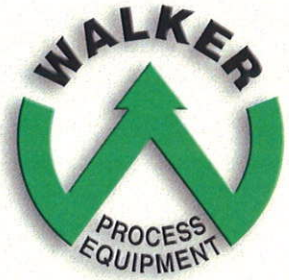
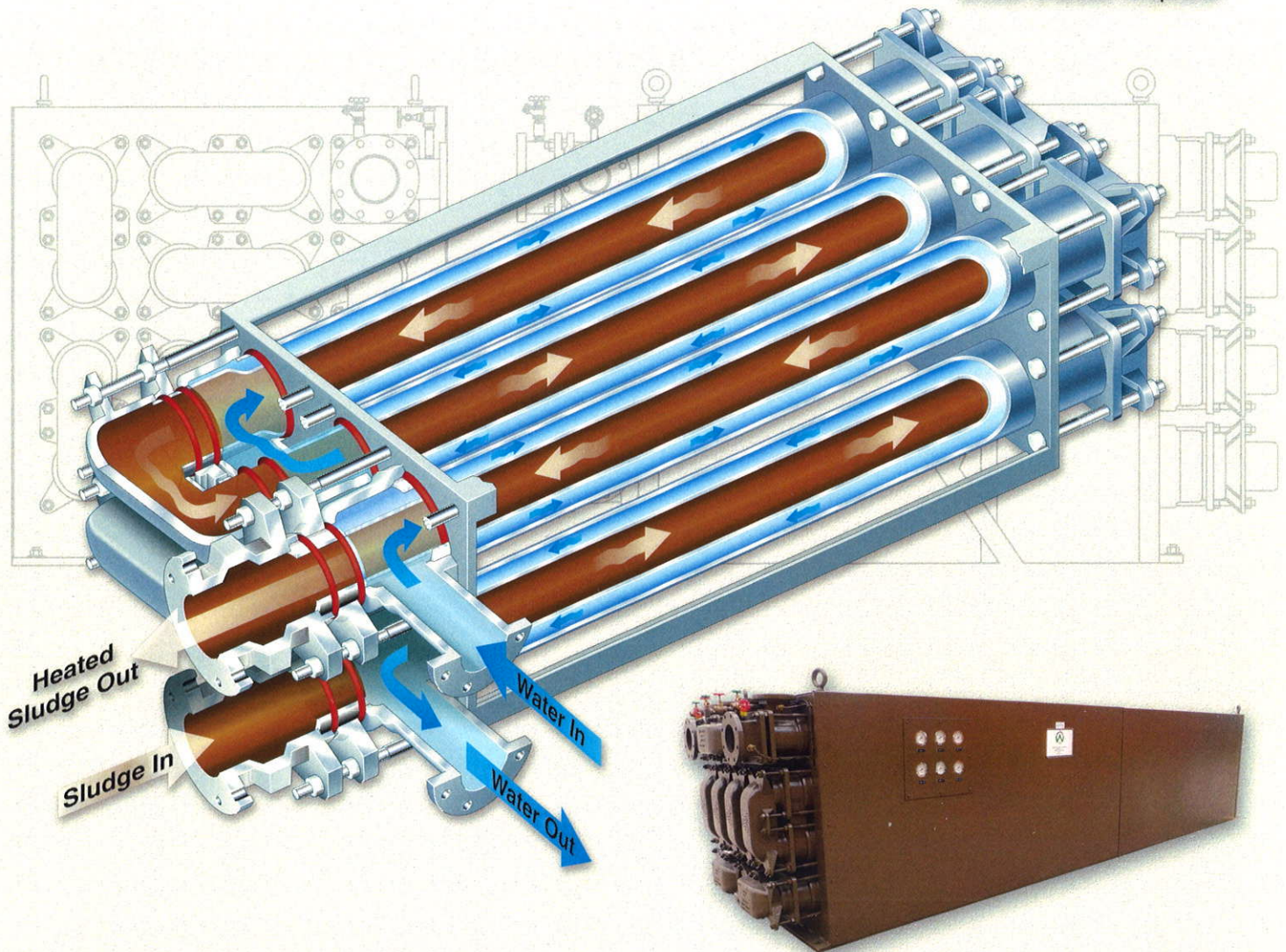


Water-to-Sludge Heat Exchanger



Division of McNish Corporation

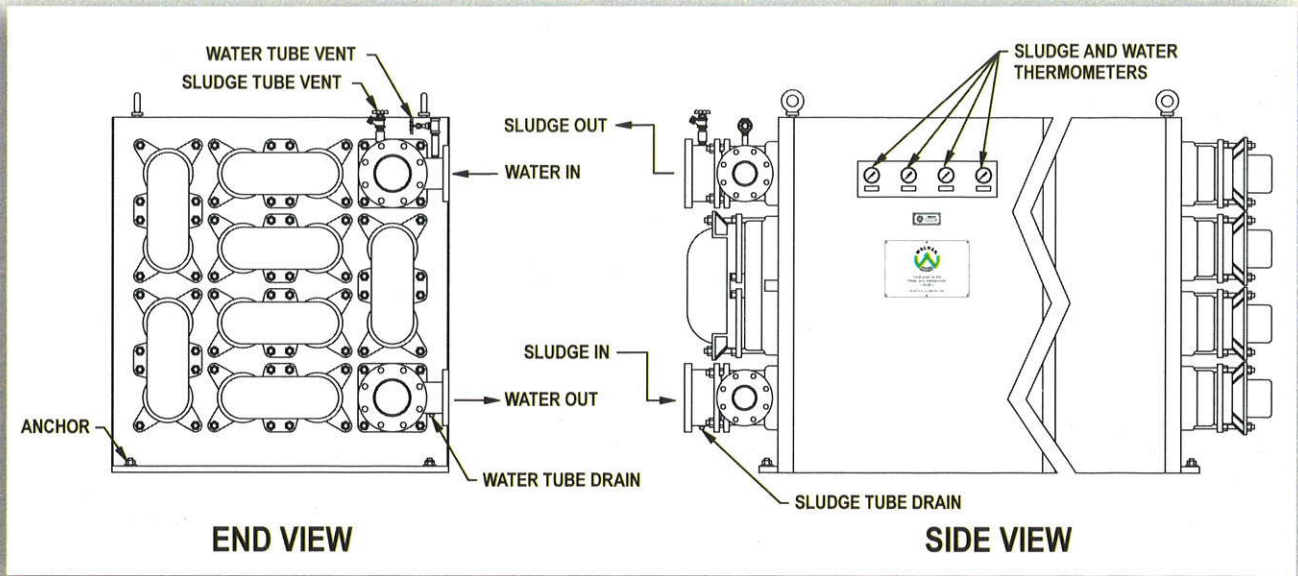


Heat Digester Sludge Efficiently

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 Equipment 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)	2, 4, 6, 8, 12, 16, 24, up to 20 ft. long. Variable stack configurations and inlet/outlet locations to accommodate piping layout.
Pipe Diameters	Inner Sludge Tubes – 4 or 6 inch Outer Water Tubes – 6 or 8 inch Large Passageways
Materials of Construction	ASME SA 53 Schedule 40 Carbon Steel Pipes 3/4" ASTM A36 Carbon Steel End Plates ASME SA278 Class 40 Cast Iron End Fittings
Insulation	2 inch Wrapped Fiberglass Insulation
Temperature Control	Non-flow restrictive temperature sensors and dial thermometers to measure inlet and outlet sludge temperatures; thermocouple and Resistance Temperature Detector (RTD) capable for remote indication of control. Available adjustable blended water valve to insure water temperature stays within a range that will not cause baking of sludge to the inside of the sludge tubes.
Enclosure	14 ga. Painted Steel Enclosure on sides and top.
Construction	High pressure units available for use with egg-shaped digesters. 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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