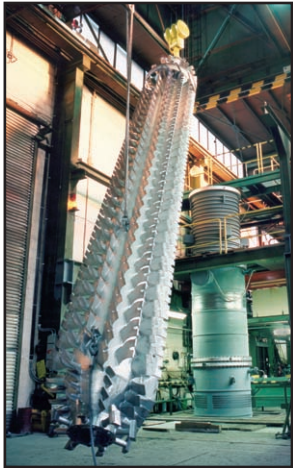


HIGH VISCOSITY PROCESSING

LCI's Vistran™ processor is designed for thin film processing of hard to move fluids in the viscosity range of 50,000 to 15,000,000 cp. It is used in the manufacturing and finishing of various polymers, resins, highly viscous food products and other difficult to handle materials. It is ideal for these applications and a host of others since it provides higher heat and mass transfer rates for viscous fluids than is possible with other types of equipment.



Vistran processors can be provided with either countercurrent or co-current vapor flow. Countercurrent flow is normally recommended for final concentration of viscous streams. Co-current flow permits processing super-heated/flashing feed streams and is often used as a pre-concentrator for vented extruders.

Normally, all products and vapor wetted surfaces are of 316 stainless steel, but construction in a wide range of special alloys is available. Units are built to ASME code requirements. Heating is typically by steam or liquid heat transfer fluids.

Component systems including items such as tanks, pumps and instruments can be furnished, or a complete modular system can be supplied for quick installation.

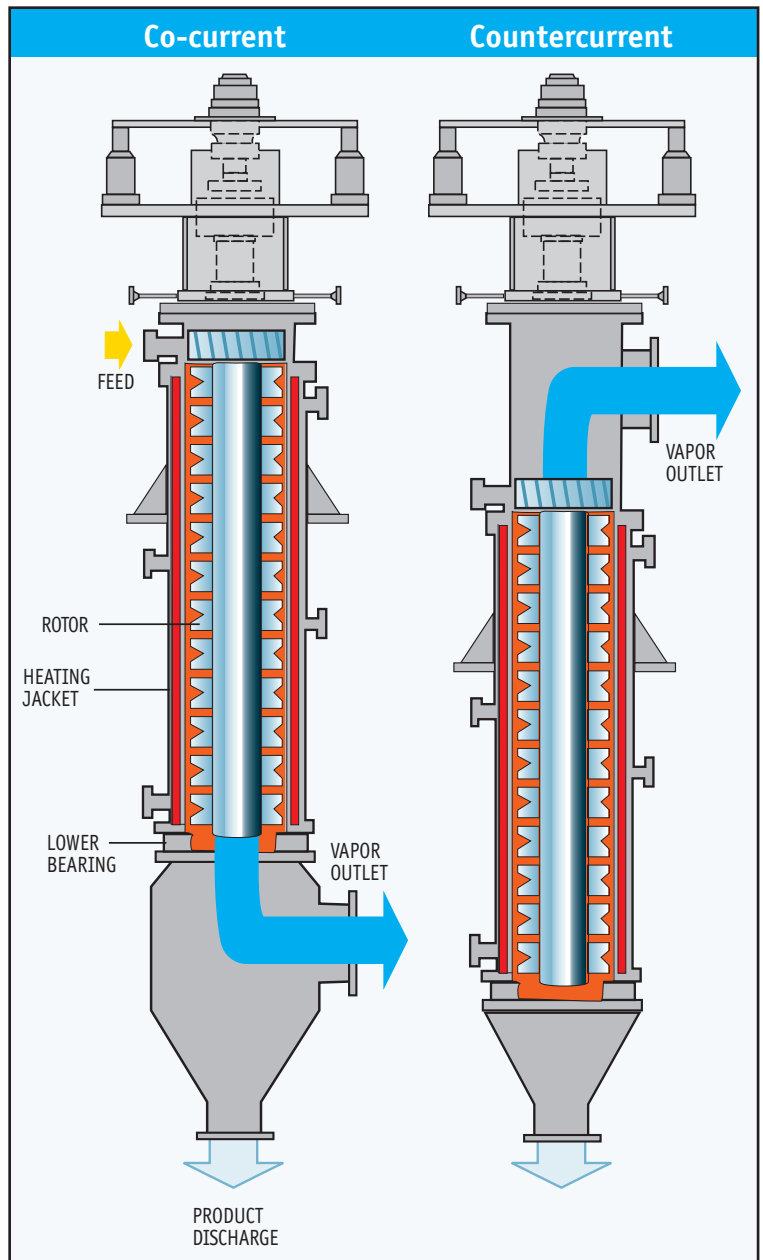
Major Applications

Concentrating and devolatilizing:

Polyethylene, polypropylene, phenolics, polystyrene, polycarbonate, polyesters, PVA, epoxies, and many engineering thermoplastics

Polymerization or polycondensation:

Polyesters, phenolics, styrene, acrylics, PVA, SAN and many co-polymers

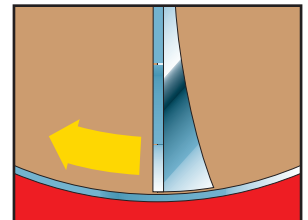


Demonomerizing and finishing:

Nylon-6, polystyrene, PVA, SAN, ABS and virtually any styrenic or olefinic co-polymer

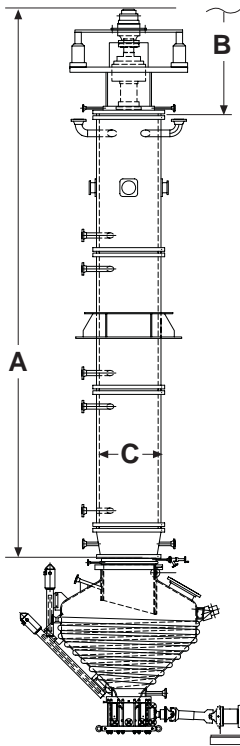
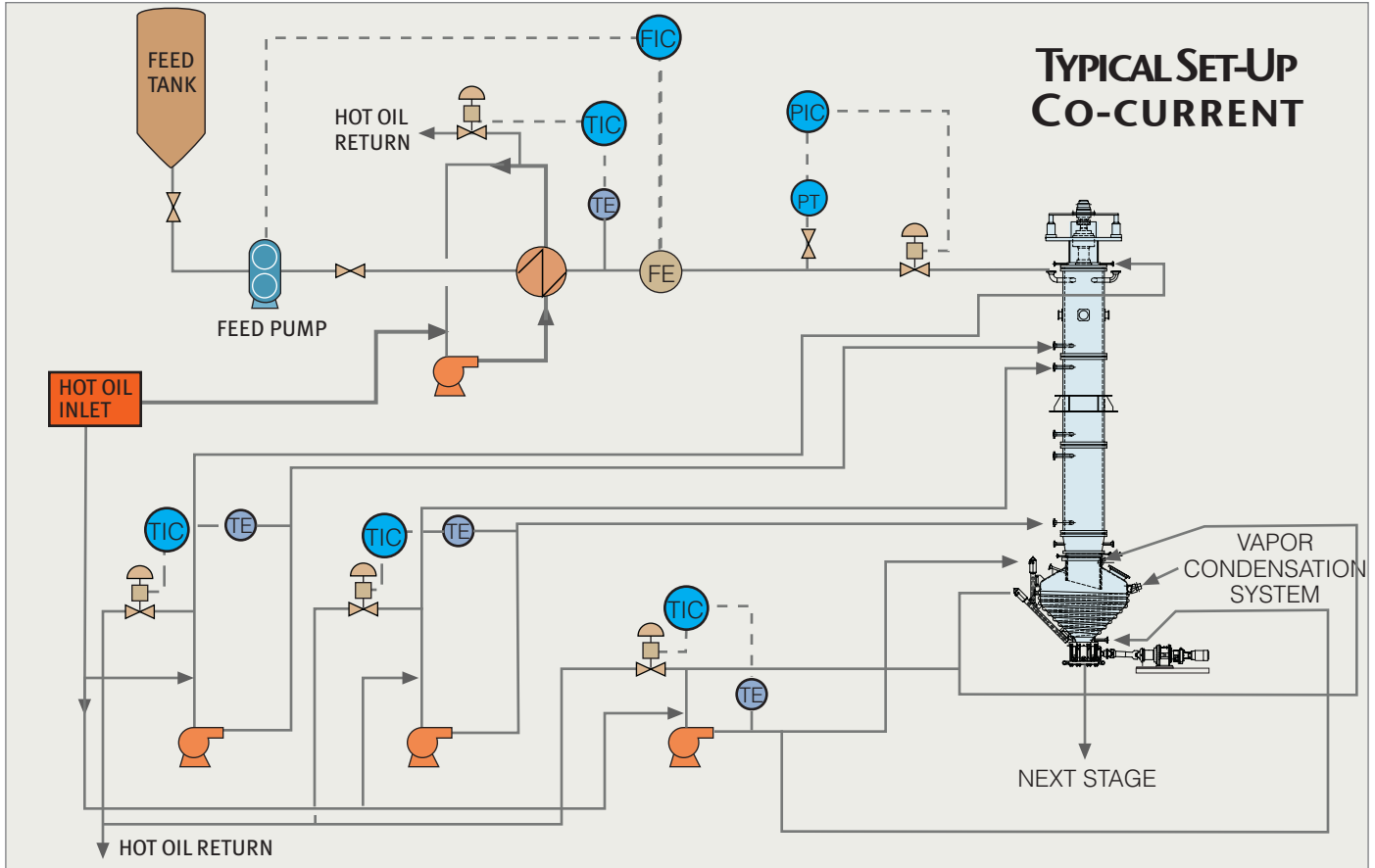
Recovery of solvent and polymer from waste streams:

Organic solvents, monomers, and other reactants; waxes, and low-grade polymer wastes



The Vistran rotor provides positive transport of materials which do not flow by gravity.

HIGH VISCOSITY PROCESSING



DIMENSIONAL INFORMATION (Approximate)

Area ft. ² (m ²)	A Overall Height in.(mm)	B Rotor Withdrawal in.(mm)	C Diameter in.(mm)	Weight Empty lb.(kg)
5(0.5)	132(3,352)	96(2,438)	7(178)	1,200(544)
10(1)	156(3,962)	133(3,378)	8(203)	2,500(1,136)
20(2)	192(4,876)	166(4,216)	12(305)	4,600(2,090)
38(3.5)	240(6,096)	192(4,877)	17(432)	7,500(3,409)
60(5.5)	288(7,315)	225(5,715)	23(584)	13,200(6,000)
85(8)	324(8,230)	250(6,350)	33(838)	11,700(5,318)
130(12)	396(10,058)	312(7,925)	33(838)	18,000(8,182)
190(18)	480(12,192)	381(9,677)	39(990)	21,000(9,545)
255(24)	552(14,020)	429(10,897)	47(1,194)	36,000(16,364)
(40)				49,000(22,272)

Number of heating jackets
varies with size



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