

SPECIFICATIONS

MODEL VTO-		2100	2100C	2150	2150C	2200	2200C	3150H	3150C	3200	3200C	3300	3300C	4300	4300C
Heater¹	KW	12	12	12	12	12	12	16	16	16	16	16	16	24	24
Heat Exchanger	Sq. Ft.	--	3.5	--	3.5	--	3.5	--	3.5	--	3.5	--	3.5	--	3.5
Process Pump	HP	1	1	1½	1½	2	2	1½	1½	2	2	3	3	3	3
	GPM	30	30	45	45	50	50	45	45	50	50	60	60	60	60
	PSI	24	24	26	26	28	28	26	26	28	28	26	26	26	26
Fluid Volume^{6,7} (Approx. Gallons)	Unit	3	3	3	3	3	3	5	5	5	5	5	5	5	5
	Expansion Tank	2	2	2	2	2	2	4	4	4	4	4	4	4	4
Unit Amperage² (Full Load) @3ø/60hz	230 Volts	34.8	34.8	36.4	36.4	38.0	38.0	47.0	47.0	49.0	49.0	51.0	51.0	71.0	71.0
	460 Volts	17.9	17.9	18.7	18.7	19.5	19.5	23.5	23.5	24.5	24.5	25.5	25.5	35.5	35.5
	575 Volts	14.3	14.3	14.9	14.9	15.6	15.6	18.8	18.8	49.6	49.6	20.4	20.4	28.4	28.4
Unit Dimensions (inches)	Height	44	44	44	44	44	44	58	58	58	58	58	58	58	58
	Width	16	16	16	16	16	16	23	23	23	23	23	23	23	23
	Depth	24	24	24	24	24	24	47	47	47	47	47	47	47	47
Process Connections (inches)	To / From ³	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Supply / Drain ⁴	½	½	½	½	½	½	½	½	½	½	½	½	½	½
Unit Weight (pounds)	Shipping ⁵	275	275	285	285	300	300	580	580	595	585	610	610	770	770

MODEL VTO-		4500	4500C	4750	4750C	5300	5300C	5500	5500C	5750	5750C	6500	6500C	6750	6750C
Heater¹	KW	27	27	27	27	36	36	36	36	36	36	48	48	48	48
Heat Exchanger	Sq. Ft.	--	3.6	--	3.6	--	3.6	--	3.6	--	3.6	--	3.6	--	3.6
Process Pump	HP	5	5	7½	7½	3	3	5	5	7½	7½	5	5	7½	7½
	GPM	70	70	100	100	60	60	70	70	100	100	70	70	100	100
	PSI	28	28	44	44	26	26	28	28	44	44	28	28	44	44
Fluid Volume^{6,7} (Approx. Gallons)	Unit	5	5	5	5	8	8	8	8	8	8	8	8	8	8
	Expansion Tank	5	5	5	5	7	7	7	7	7	7	7	7	7	7
Unit Amperage² (Full Load) @3ø/60hz	230 Volts	84.0	84.0	90.8	90.8	101.1	101.1	106.7	106.7	113.5	113.5	138.8	138.8	143.6	143.6
	460 Volts	42.4	42.4	45.8	45.8	50.9	50.9	53.7	53.7	57.1	57.1	68.9	68.9	72.3	72.3
	575 Volts	33.9	33.9	36.6	36.6	40.7	40.7	42.9	42.9	45.6	45.6	55.1	55.1	57.8	57.8
Unit Dimensions (inches)	Height	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	Width	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	Depth	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Process Connections (inches)	To / From ³	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Supply / Drain ⁴	½	½	½	½	½	½	½	½	½	½	½	½	½	½
Unit Weight (pounds)	Shipping ⁵	715	715	730	730	740	740	740	740	740	740	750	750	770	770

Notes:

- Derate heater output by 25% for 208/3/60 operation.
- Consult factory for 50hz operations.
- T - to process; F - from process.
- S - water supply; D - drain.
- Approximate shipping weight. Selection of certain options and customer features may change the shipping weight.

6. Typical fluid expansion rates:

- Paratherm OR : 4.00% per 100°F
- Paratherm NF : 3.04% per 100°F
- Multitherm PG-1 : 3.10% per 100°F
- Calflo FG : 5.62% per 100°F

7. Do not use Multitherm 603.

8. Models with an "H" suffix provide heating only. Models with an "HC" suffix provide cooling through the U-tube heat exchanger and heating. Cooling water must be provided from an external source.

LIMIT DEVICES

- **High temperature limit** prevents unit operations if process temperatures exceed 500°F.
- **Water supply pressure switch** prevents operation if the supply pressure presented to the pump seal cooling circuit is not adequate.
- **Pressure relief valve** for the cooling circuit vents excessive water pressure, which can occur during use of the optional heat exchanger.
- **Motor overload relay** protects the pump motor from excessive amperage, which can occur when the flow is higher than the pump rating.
- **Fused control circuit** is included to protect the microprocessor instrument.

ELECTRICAL CONSTRUCTION

NEMA 1 is the standard electrical construction and is suitable for the majority of applications. Components include pump motor starter with overload protection, mercury heater contactor, transformer with 110 volt fuse control circuit.

Offered as an option units can be customized to meet many electrical requirements including UL labeled electrical enclosures and NFPA 79. A fused or non-fused disconnect is optional.



For best pricing call **Southgate Process Equipment** @ (770) 345-0010

