

DESIGN CONDITIONS

Maximum Operating Temperature:	250°C
Maximum Operating Pressure - Jacket and Rotor:	40.4bar (580 p.s.i.)
Material of Construction:	316 Stainless Steel
Unit type:	V450 - 4
Total Capacity:	0.48 m <sup>3</sup>
Useful Capacity:	0.38 m <sup>3</sup>
Housing Diameter (internal):	450 mm
Length of Screw:	4.8 m
Total Overall Length:	9.0 m
Number of Housing Sections:	4
Agitator Speed:	27 r.p.m.
Oscillation Strokes:	approximately 1 per minute
Drive Power Installed:	75 kw (estimated)
Apparent Overall Heat Transfer Coefficient:	Approx. 50 W/m <sup>2</sup> K (9 CHU/h ft <sup>2</sup> °C)
True Overall Heat Transfer Coefficient:	Approx. 75 W/m <sup>2</sup> K (13 CHU/h ft <sup>2</sup> °C)
Method of Overpressure Relief:	open vent via item 209
Vessel vented to:	item 209
Lagging required:	Yes

Connections: Standard

Instruments:

204/XR/1	Current recorder for main drive
204/XA/1	High current alarm
204/PI/1	Local steam pressure gauge
204/TI/1	Local condensate temperature

Motors:

A - Main drive	- 75 kw (estimated)
B - Oscillating hydraulic pump	- 5.5 kw ( " )
C - Gear Box lubrication pump	- 1.1 kw ( " )

Remarks:

- 1) General description of unit is given in note FDB/PAT/3.7.4. dated April 1977.
- 2) The following factors await further discussion with the suppliers:

# Range of models/dimensions

CONTIVAC Type	V 300-2	V 300-3	V 450-2	V 450-4	V 600-2	V 600-4	V 800-3	V 800-5
Volume (litres)	100	150	240	480	625	1250	1750	2900
Heating surface area (m <sup>2</sup> )	4	6,5	7	14,5	13	27	33	57
L (m)	6,5	7,5	6,5	9,0	8,5	11,5	11,5	15,0
B (mm)	800	800	1000	1000	1250	1250	1500	1500
z x b (mm)	2 x 1200	3 x 1200	2 x 1200	4 x 1200	2 x 1680	4 x 1680	3 x 1760	5 x 1760
h (mm)	2500	2500	2800	3400	3700	4300	4800	4800
e (mm)	2500	2500	2900	2900	3300	3300	3600	3600
D (mm)	300	300	450	450	600	600	800	800
d (mm)	300	300	300	300	400	400	400	400

