

HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

KETTLE 3108A				
	<i>vessel</i>	<i>jacket</i>	<i>drive</i>	<i>agitator</i>
Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990		Reliance Motor Co. Cleveland, OH 44117	Buchi GlasUster
Model	9153			
Serial	14297/5239		B56I2340MBY	
Capacity	250 liter, nominal 330 liter, max.	30 liter		
Description/dimensions	See-through reaction vessel with GLCS top and bottom and glass mid-section	CS jacket with insulation and SS sheathing	Manual variable drive	- 2-part impeller - Baffle w/Tantalum tip - Resistance thermometer 3 x Pt 100 A
year manufactured	1996			
material of construction, in product contact	Cylinder - Borosilicate glass Cover & bottom - GLCS			GLCS
Design Pressure (Bar)	-1 to 0.4	-1 to 10		
Design Temperature (C)	-60 to 230	-60 to 200		
horse power	x		1.3	
rpm	x		3450	0-250
Seal				mechanical seal unit w/single acting face seal of oxide ceramic/Teflon
lubricant			glycerin	
reference PSK	0394			
reference P & ID				

HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
EQUIPMENT SPECIFICATIONS - NEW FACILITIES

KETTLE 3108A				
	<i>vessel</i>	<i>jacket</i>	<i>drive</i>	<i>agitator</i>

National Board #	N/A			
RI state ID #	N/A			
Hydrostatic test pressure	N/A			
Spark testing	DIN ISO 2746			
reference drawing (vendor)	Glasaufbau 9711			
HCC reference drawing				
installation / maintenance manual	Buchi Chemreactor			
purchase order	C105381			
purchase order date	2/96			
cost	\$21,176			
Project name	Celendy Pharmaceutical Facility Upgrade			
Project number	T5016			
project item number	A200			
weight, empty, kg	1200			
Major maintenance activities				

HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

RECEIVER 3108B

Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990
Model	15.12040.DN1
Serial	
Capacity (gallons) Rated / Full/detailed	100 liter Graduated in liters
Description/dimensions	round bottom flask
year manufactured	1996
material of construction- in product contact	Borosilicate glass
Design Pressure (bar)	-1/+0.4
Design Temperature (C)	200
reference PSK	0394

National Board #	N/A
RI state ID #	N/A
Hydrostatic test pressure	N/A
reference drawing (vendor)	9711
HCC reference drawings	
installation / maintenance manual	Buchi Chemreactor
purchase order	C105381
purchase order date	2/96
cost	\$42,110
Project name	Sanofi Pharmaceutical Facility Upgrade
Project number	T5016
project item number	A200
weight, empty, kg	

9/16/96

HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

RECEIVER 3108C

Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990
Model	15.12040.DN1
Serial	
Capacity (gallons) Rated / Full/detailed	100 liter Graduated in liters
Description/dimensions	round bottom flask
year manufactured	1996
material of construction- in product contact	Borosilicate glass
Design Pressure (bar)	-1/+0.4
Design Temperature (C)	200
reference PSK	0394

National Board #	N/A
RI state ID #	N/A
Hydrostatic test pressure	N/A
reference drawing (vendor)	9711
HCC reference drawings	
installation / maintenance manual	Buchi Chemreactor
purchase order	C105381
purchase order date	2/96
cost	\$124,176
Project name	Pharmaceutical Facility Upgrade
Project number	T5016
project item number	A200
weight, empty, kg	

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HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

CONDENSER 3108 D

Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990
Model	20.01110.0000
Serial	
Condenser Surface Area	1.6 m2
Description/dimensions	vertical condenser
Volume of spirals	3.6 dm3
Volume of jacket	11.8 dm3
year manufactured	1996
material of construction-	Borosilicate glass
Design Pressure (bar)	-1/+1; in spiral +0.3 bar
Design Temperature (C)	-50 to +200; permissible shock=100 C
Heat Transfer co-efficient	450-620 W/m2 K for condensation
reference PSK	0394

National Board #	N/A
RI state ID #	N/A
Hydrostatic test pressure	N/A
reference drawing (vendor)	9711
HCC reference drawings	
installation / maintenance manual	Buchi Chemreactor
purchase order	C105381
purchase order date	2/96
cost	\$124,176
Project name	Chemistry Pharmaceutical Facility Upgrade
Project number	T5016
project item number	A200
weight, empty, kg	11.5

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HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

CONDENSER 3108 E

Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990
Model	20.01110.0000
Serial	
Condenser Surface Area	1.6 m2
Description/dimensions	vertical condenser
Volume of spirals	3.6 dm3
Volume of jacket	11.8 dm3
year manufactured	1996
material of construction-	Borosilicate glass
Design Pressure (bar)	-1/+1; in spiral +0.3 bar
Design Temperature (C)	-50 to +200; permissible shock=100 C
Heat Transfer co-efficient	450-620 W/m2 K for condensation
reference PSK	0394

National Board #	N/A
RI state ID #	N/A
Hydrostatic test pressure	N/A
reference drawing (vendor)	9711
HCC reference drawings	
installation / maintenance manual	Buchi Chemreactor
purchase order	C105381
purchase order date	2/96
cost	\$424,176
Project name	Coventry Pharmaceutical Facility Upgrade
Project number	T5016
project item number	A200
weight, empty, kg	11.5

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HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

CONDENSER 3108 F

Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990
Model	20.01090.0000
Serial	
Condenser Surface Area	1.3 m2
Description/dimensions	vertical condenser
Volume of spirals	2.8 dm3
Volume of jacket	10.0 dm3
year manufactured	1996
material of construction-	Borosilicate glass
Design Pressure (bar)	-1/+1; in spiral +0.3 bar
Design Temperature (C)	-50 to +200; permissible shock=100 C
Heat Transfer co-efficient	450-620 W/m2 K for condensation
reference PSK	0394

National Board #	N/A
RI state ID #	N/A
Hydrostatic test pressure	N/A
reference drawing (vendor)	9711
HCC reference drawings	
installation / maintenance manual	Buchi Chemreactor
purchase order	C105381
purchase order date	2/96
cost	\$424,170
Project name	Coventry Pharmaceutical Facility Upgrade
Project number	T5016
project item number	A200
weight, empty, kg	9.0

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HOECHST CELANESE CORPORATION
PHARMACEUTICAL PRODUCTION DEPARTMENT
INSTALLATION QUALIFICATION - NEW FACILITIES

CONDENSER 3108 G

Manufacturer	Buchi GlasUster, Switzerland (41)1-905-5144 represented by: Chemical Transfer Partnership Corporation Felix Haufen 829 Lincoln Avenue, Suite 3 Bohemia, NY 11716 (516) 589-7990
Model	20.01110.0000
Serial	
Condenser Surface Area	1.6 m2
Description/dimensions	vertical condenser
Volume of spirals	3.6 dm3
Volume of jacket	11.8 dm3
year manufactured	1996
material of construction-	Borosilicate glass
Design Pressure (bar)	-1/+1; in spiral +0.3 bar
Design Temperature (C)	-50 to +200; permissible shock=100 C
Heat Transfer co-efficient	450-620 W/m2 K for condensation
reference PSK	0394

National Board #	N/A
RI state ID #	N/A
Hydrostatic test pressure	N/A
reference drawing (vendor)	9711
HCC reference drawings	
installation / maintenance manual	Buchi Chemreactor
purchase order	C105381
purchase order date	2/96
cost	\$104,180
Project name	Celvanity Pharmaceutical Facility Upgrade
Project number	T5016
project item number	A200
weight, empty, kg	11.5

9/16/96