

PROYECTO FINAL DE CARRERA  
Ingeniería Química Junio 2008



Escola Tècnica Superior d'Enginyeria

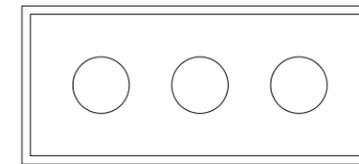
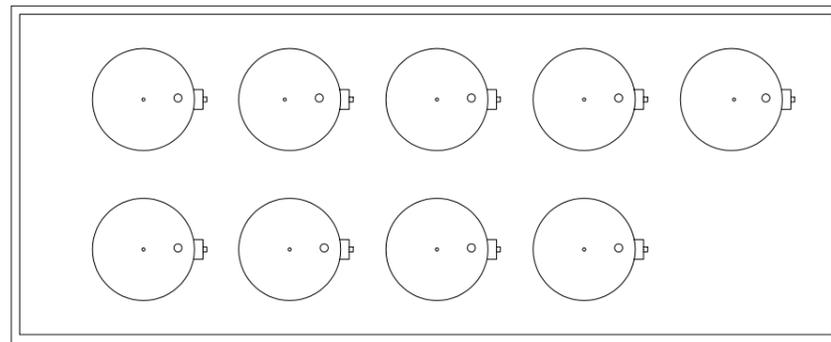
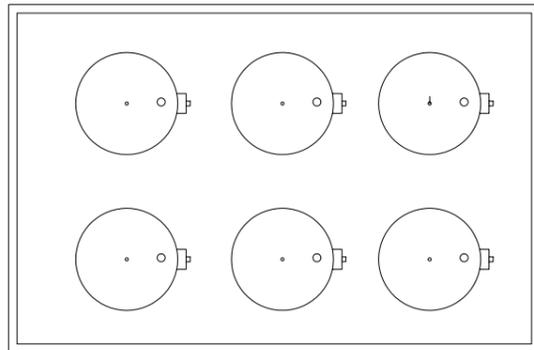
# PLANTA DE PRODUCCIÓN DE ÁCIDO ADÍPICO



VOLUMEN IV

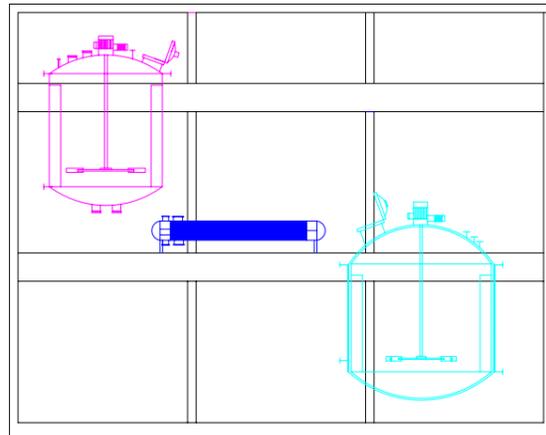
Laura Pérez Durán  
Cristina Fernández Alsina  
Jose Barrigón de San Marcos  
Álvaro Pombo Morán  
Paula Fernández González  
Leticia Laschuetza Rodríguez

# ***10. PLANOS***

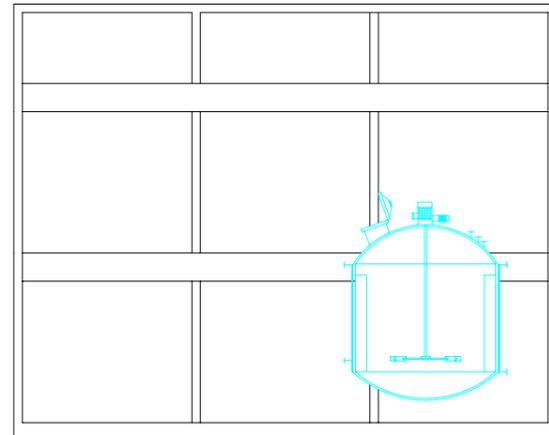


<b>EMPRESA:</b> Adipic Manufacturer		
<b>LUGAR:</b> Barcelona.Zona Franca.		
<b>PLANO:</b> Planta	<b>ZONA:</b> 100	<b>ESCALA:</b> 1:250-A3

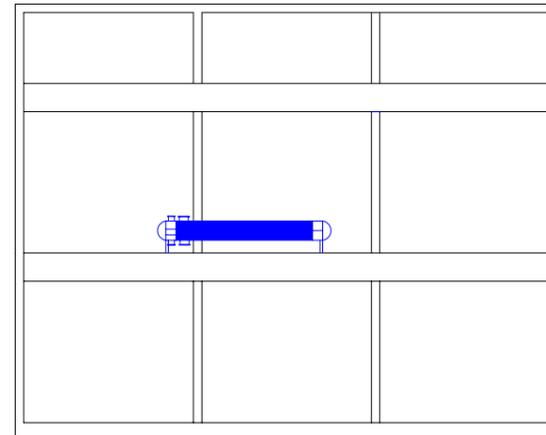
ALZADO



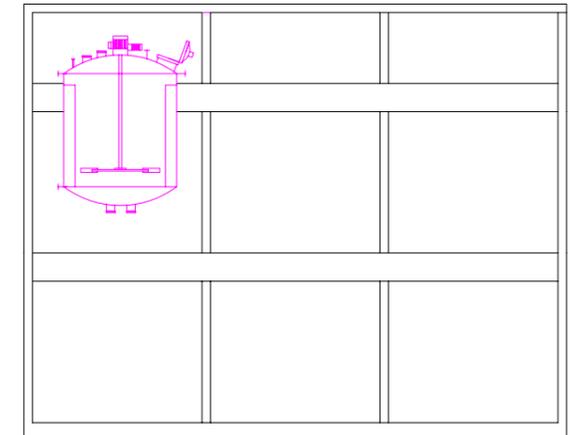
PISO 1



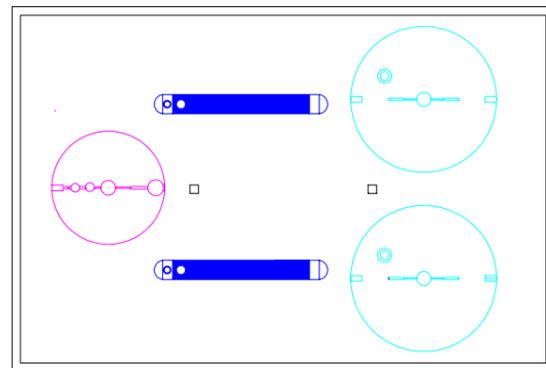
PISO 2



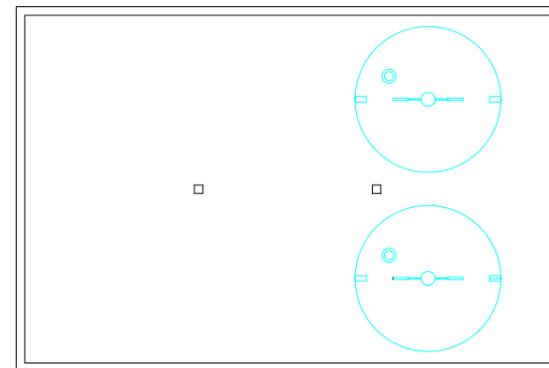
PISO 3



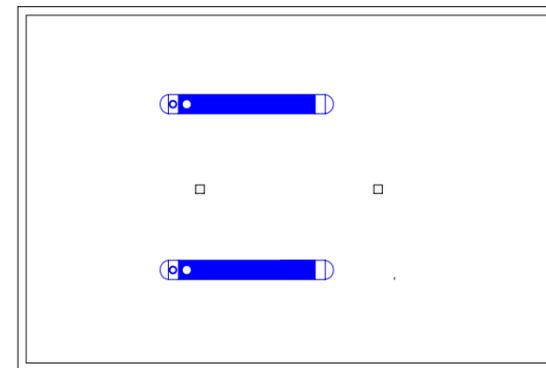
PLANTA



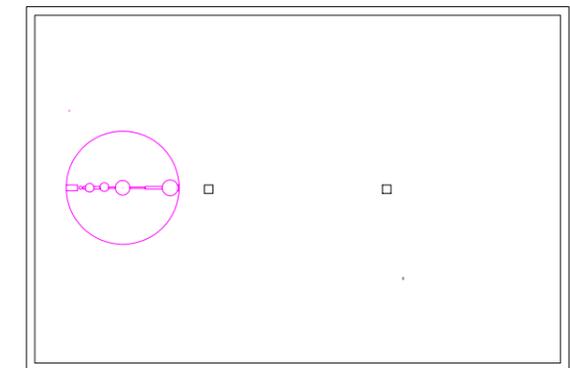
PISO 1



PISO 2



PISO 3



EMPRESA: Adipic Manufacturer

LUGAR: Barcelona.Zona Franca.

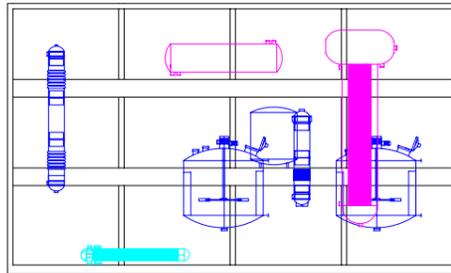
PLANO: Alzado  
y planta

ZONA: 200



ESCALA: 1:250-A3

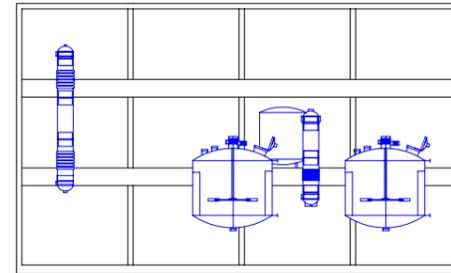
ALZADO



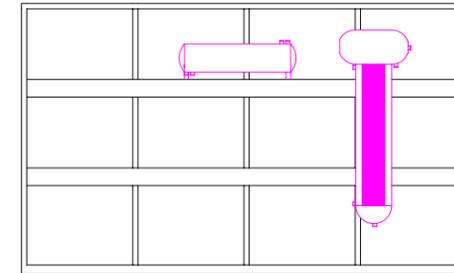
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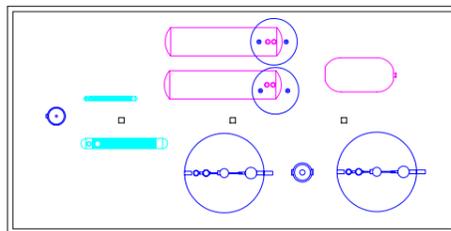
PISO 2



PISO 3



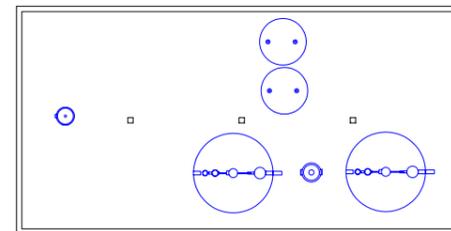
ALZADO



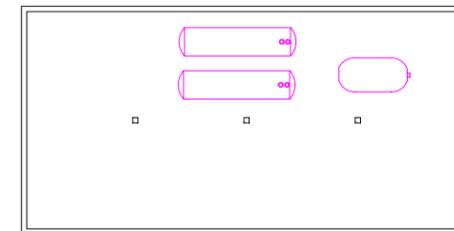
PISO 1



PISO 2

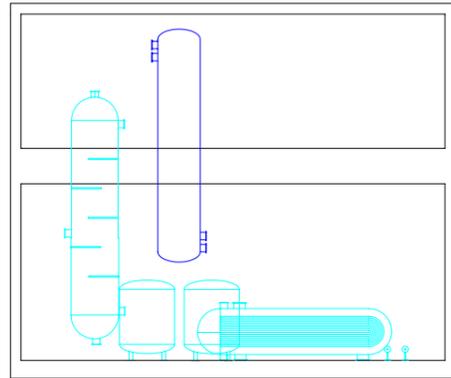


PISO 3

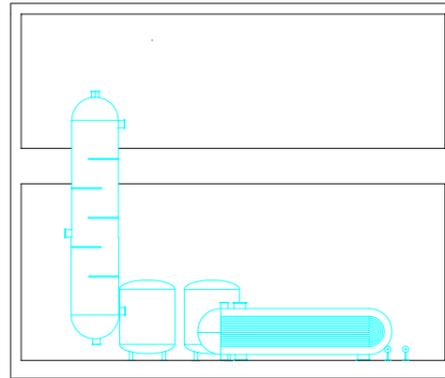


EMPRESA: Adipic Manufacturer		
LUGAR: Barcelona.Zona Franca.		
PLANO: Alzado y planta	ZONA: 300	ESCALA: 1:400-A3

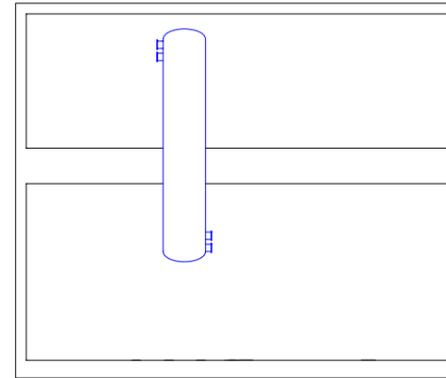
ALZADO



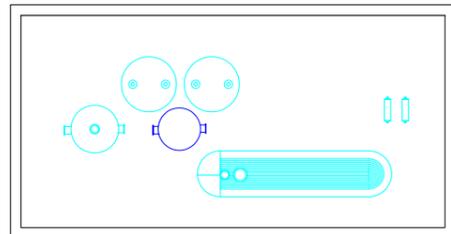
PISO 1



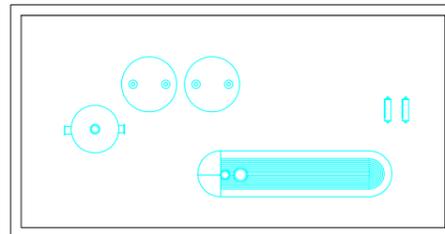
PISO 2



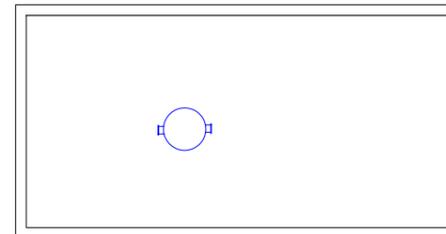
PLANTA



PISO 1



PISO 2



EMPRESA: Adipic Manufacturer

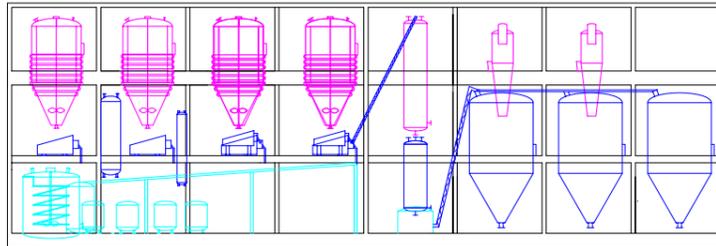
LUGAR: Barcelona.Zona Franca.

PLANO: Alzado y planta

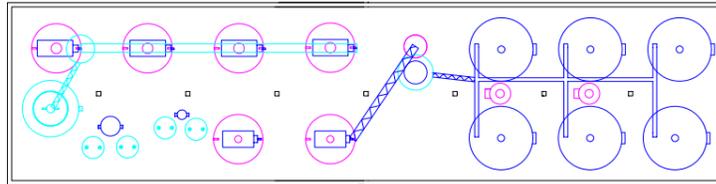
ZONA: 400



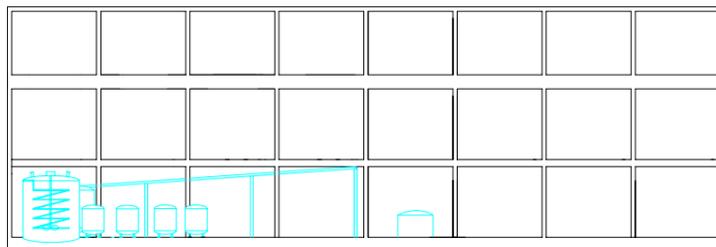
ESCALA: 1:200-A3



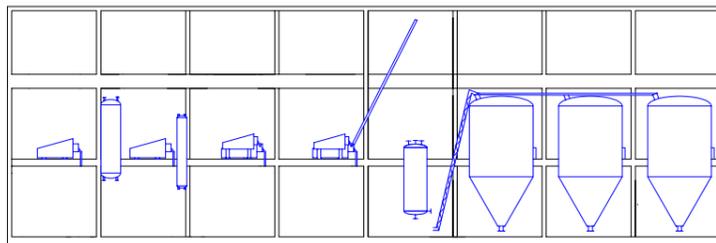
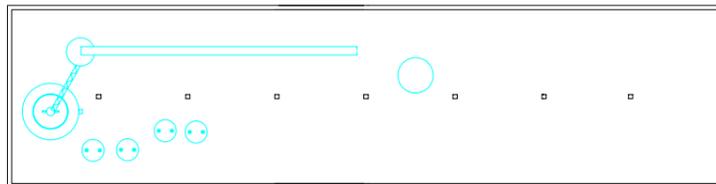
ALZADO



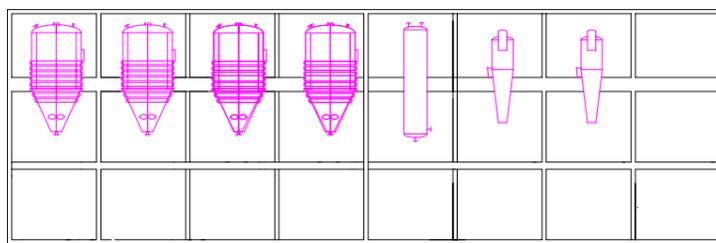
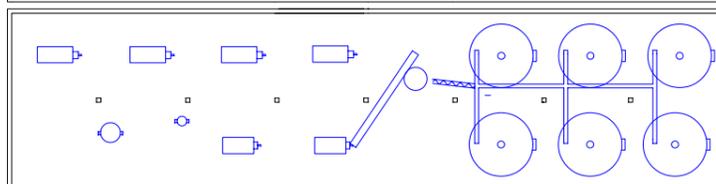
PLANTA



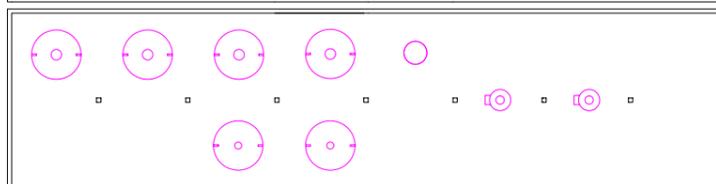
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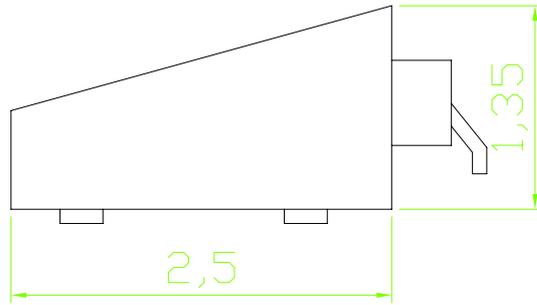
PISO 2



PISO 3



EMPRESA: Adipic Manufacturer		
LUGAR: Barcelona.Zona Franca.		
PLANO: Alzado y planta	ZONA: 600 y 700	ESCALA: 1:500-A3



EMPRESA:

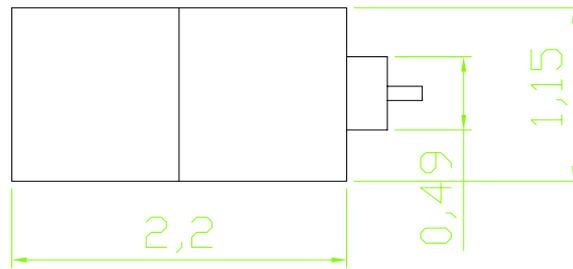
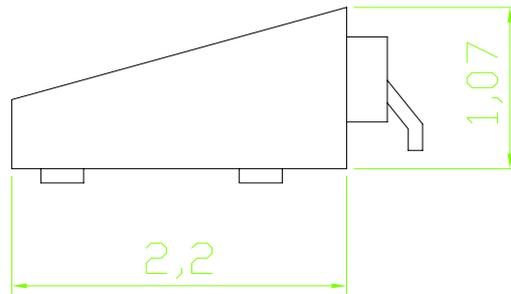


EQUIPO:  
centrífuga tipo 1

ESCALA: 1:50 -A4

ZONA: 600

NOMBRE:  
C-601A/B/C/D



EMPRESA:

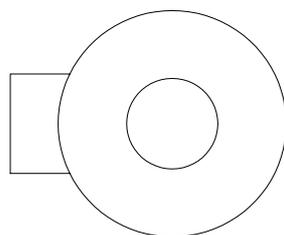
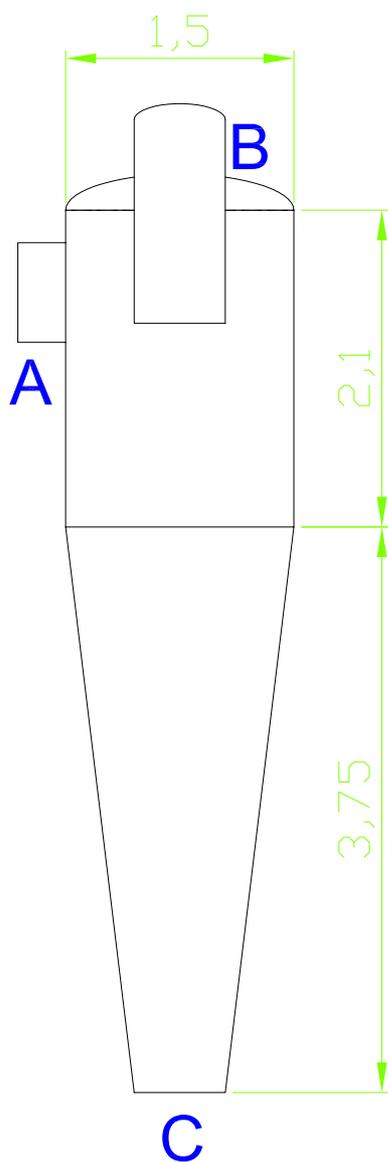


EQUIPO:  
centrífuga tipo 2

ESCALA: 1:50 -A4

ZONA: 600

NOMBRE:  
C-602A/B



EMPRESA:

EQUIPO: ciclón

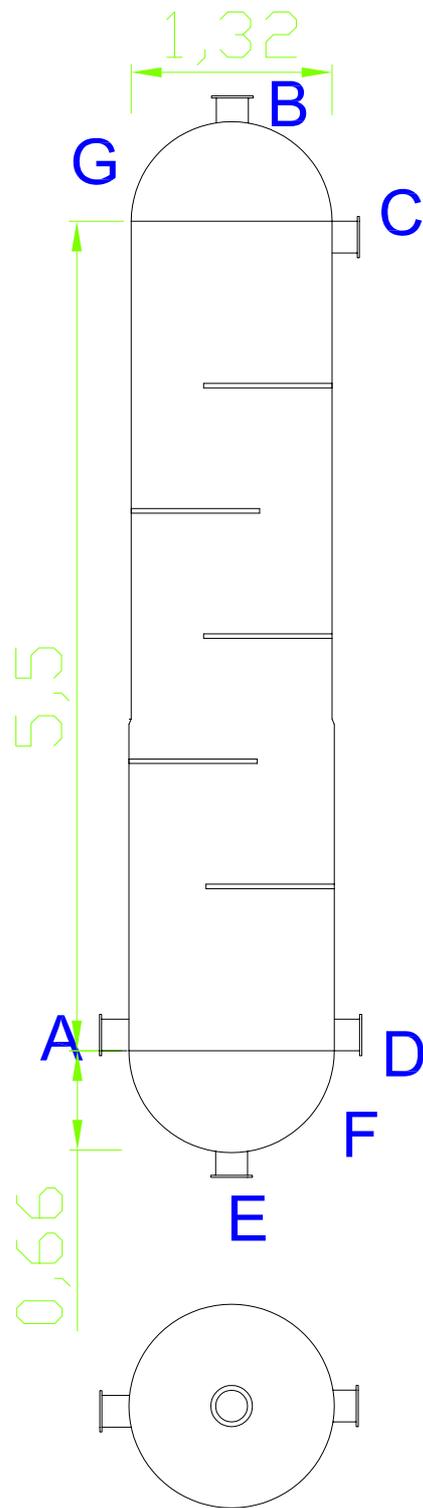
ZONA: 700



ESCALA: 1:50-A4

NOMBRE:

CL-701A/B



EMPRESA:

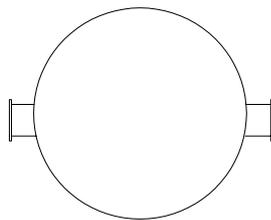
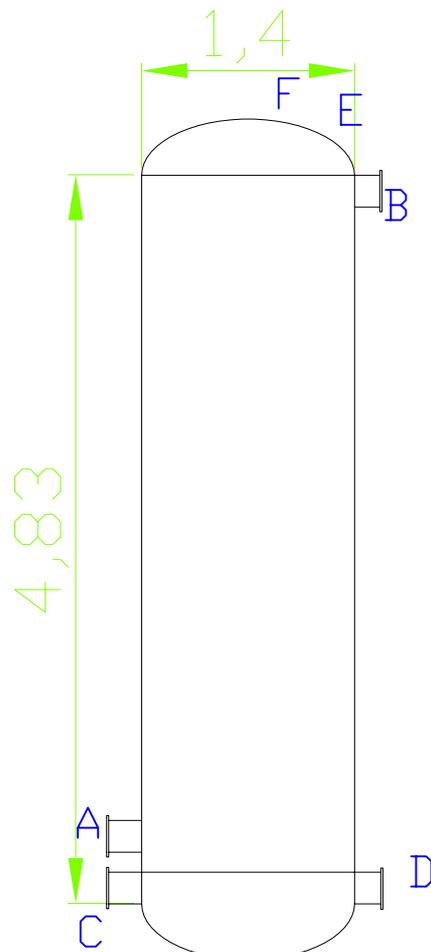
EQUIPO: columna  
de destilación

ZONA: 400

ESCALA: 1:50-A4

NOMBRE:  
CD-401





EMPRESA:

EQUIPO:

condensador

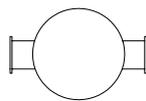
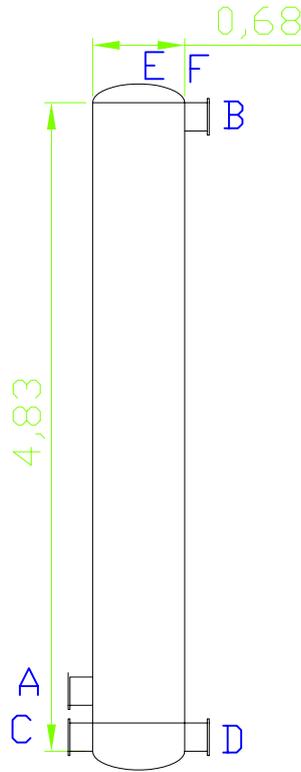
ZONA: 600



ESCALA: 1:50-A4

NOMBRE:

CN-601



EMPRESA:



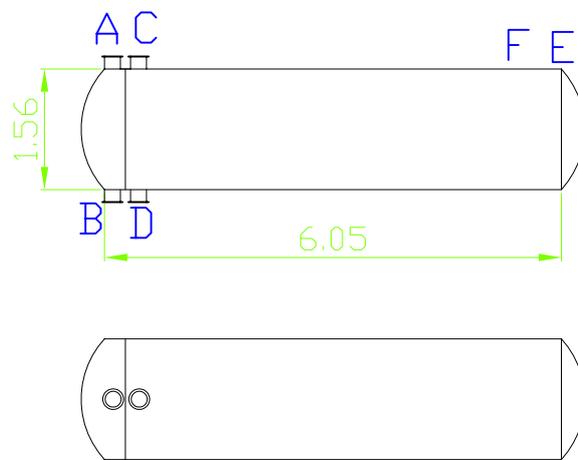
EQUIPO:

condensador

ESCALA: 1:100-A4

ZONA: 600

NOMBRE:  
CN-602



EMPRESA:

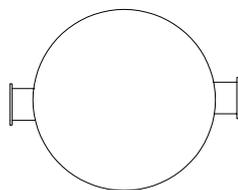
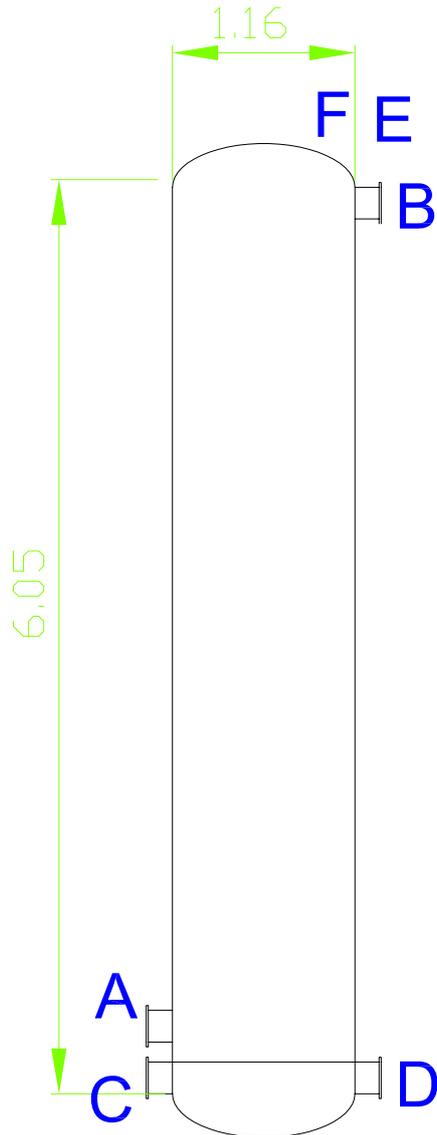
EQUIPO: condensador

ZONA: 300



ESCALA: 1:50 -A4

NOMBRE:  
CN-301A/B



EMPRESA:

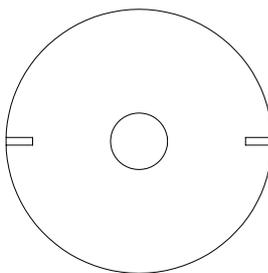
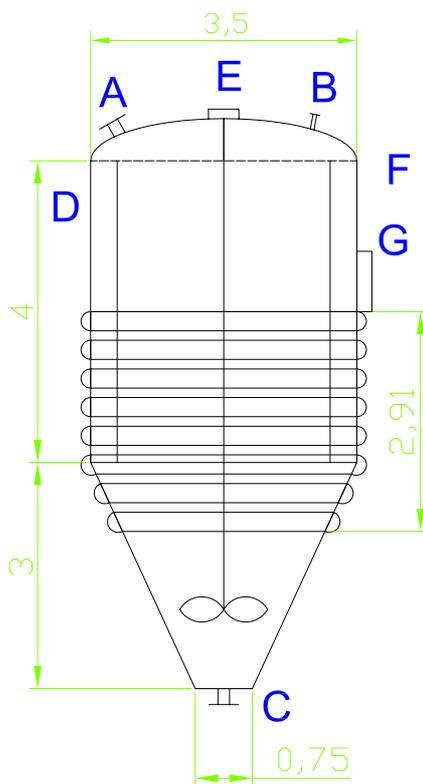
EQUIPO: condensador

ZONA: 400



ESCALA: 1:50-A4

NOMBRE:  
CN-401



EMPRESA:

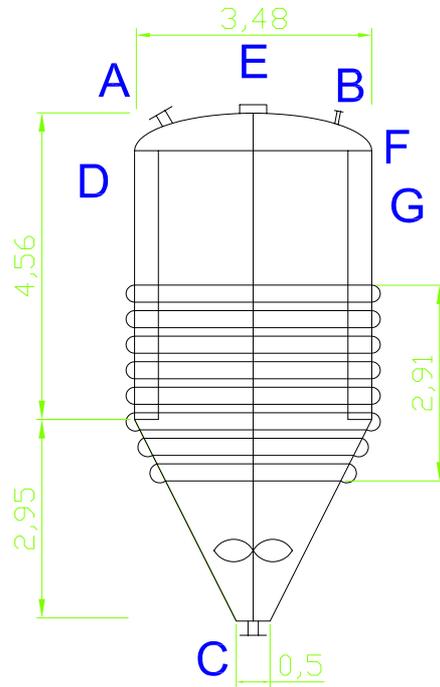
EQUIPO:  
cristalizador tipo 1

ZONA: 600

ESCALA: 1:100-A4

NOMBRE:  
CR-601A/B/C/D





EMPRESA:

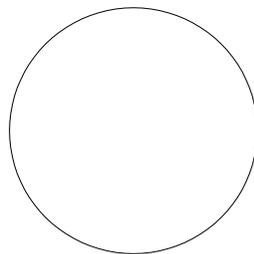
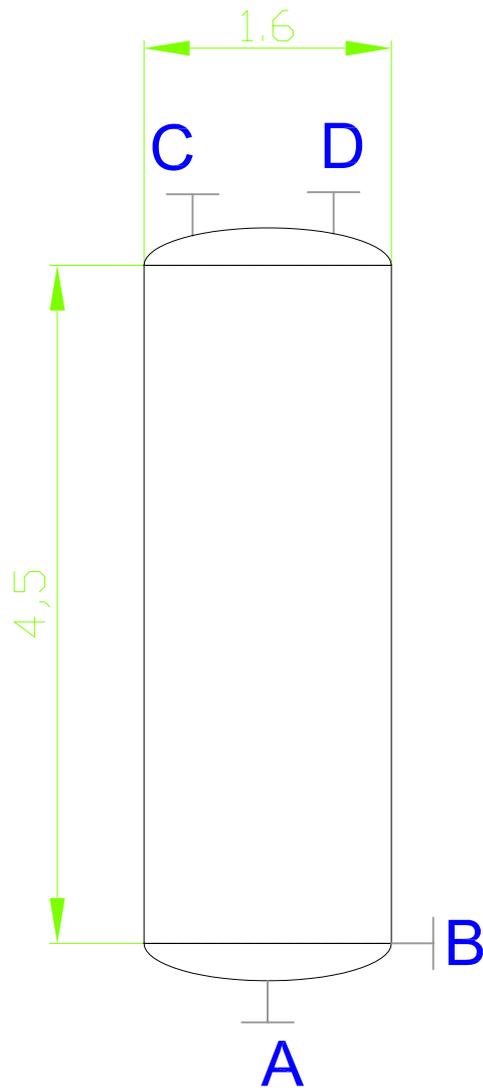


EQUIPO:  
cristalizador tipo 2

ESCALA: 1:100-A4

ZONA: 600

NOMBRE:  
CR-602A/B



EMPRESA:

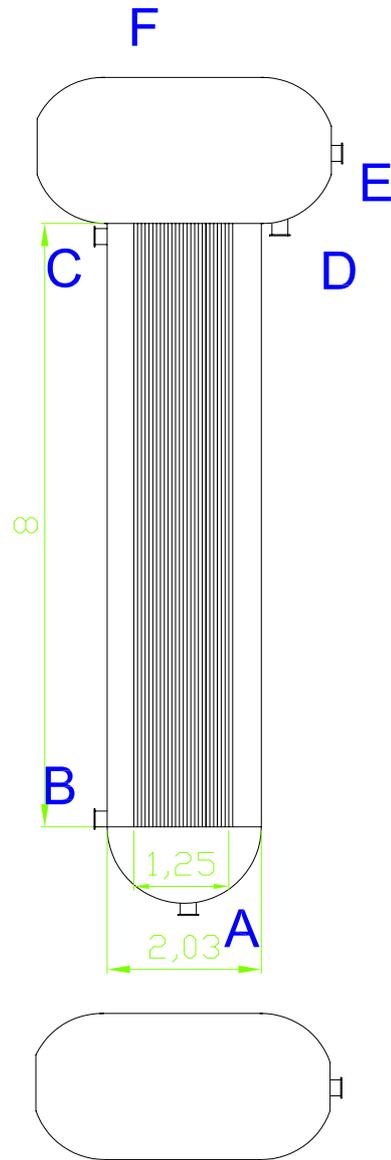
EQUIPO: enfriador

ZONA: 700



ESCALA: 1:50-A4

NOMBRE:  
EF-701



EMPRESA:



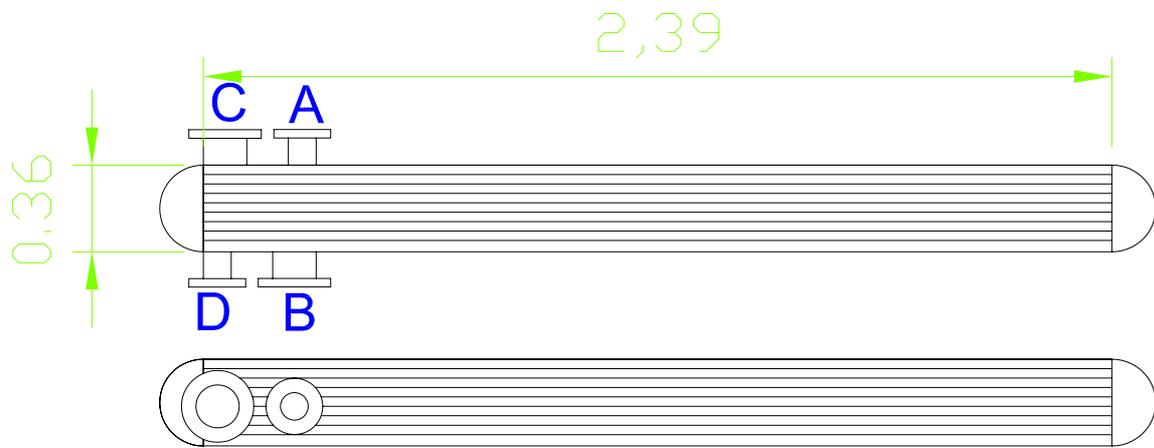
EQUIPO:

evaporador

ESCALA: 1:100-A4

ZONA: 300

NOMBRE:  
E-301



EMPRESA:



EQUIPO:

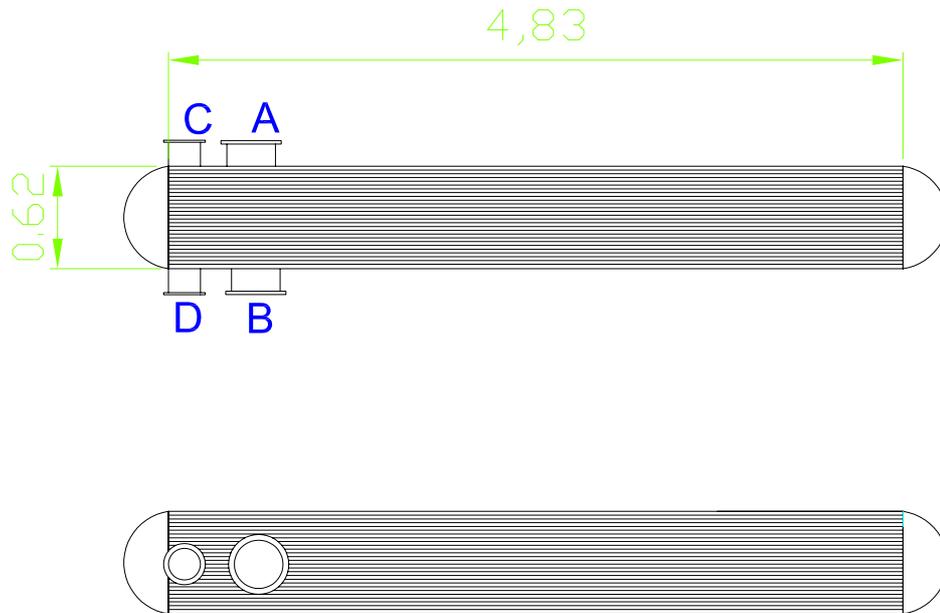
intercambiador

ESCALA: 1:20 -A4

ZONA: 700

NOMBRE:

IC-701



EMPRESA:



EQUIPO:

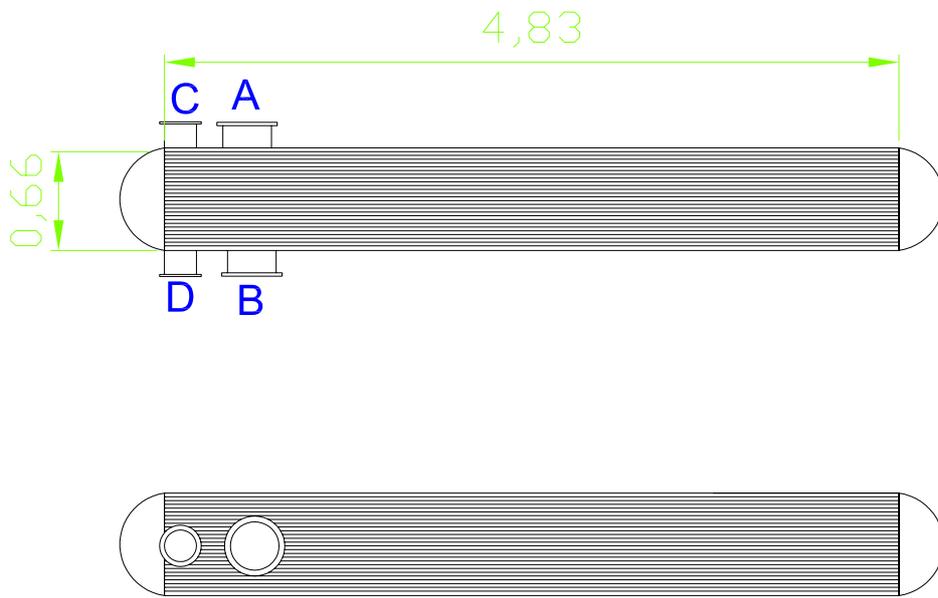
intercambiador

ESCALA: 1:50 -A4

ZONA: 700

NOMBRE:

IC-702



EMPRESA:



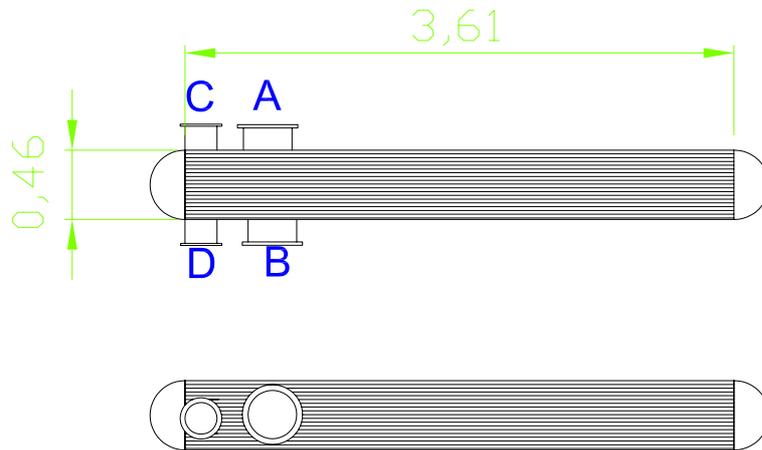
EQUIPO: intercambiador  
de calor

ESCALA: 1:50 -A4

ZONA: 200

NOMBRE:

IC-201A/B



EMPRESA:

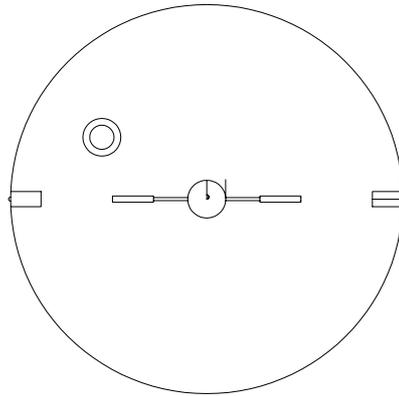
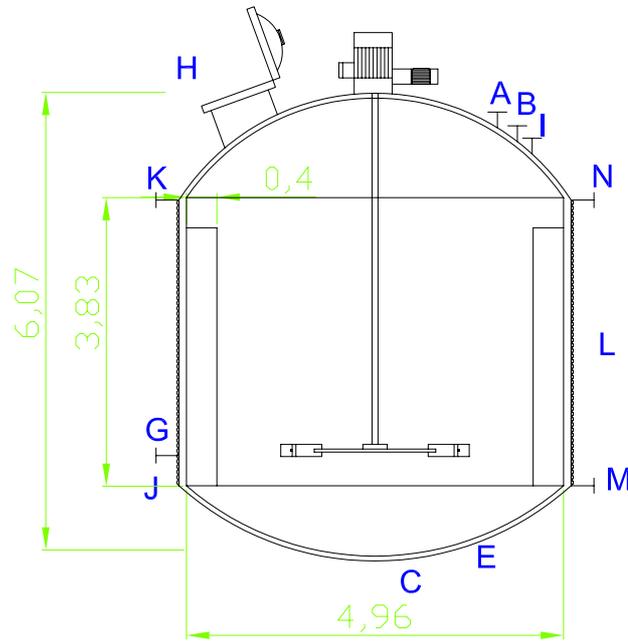


EQUIPO: intercambiador  
de calor

ESCALA: 1:50 -A4

ZONA: 300

NOMBRE:  
IC-301



EMPRESA:

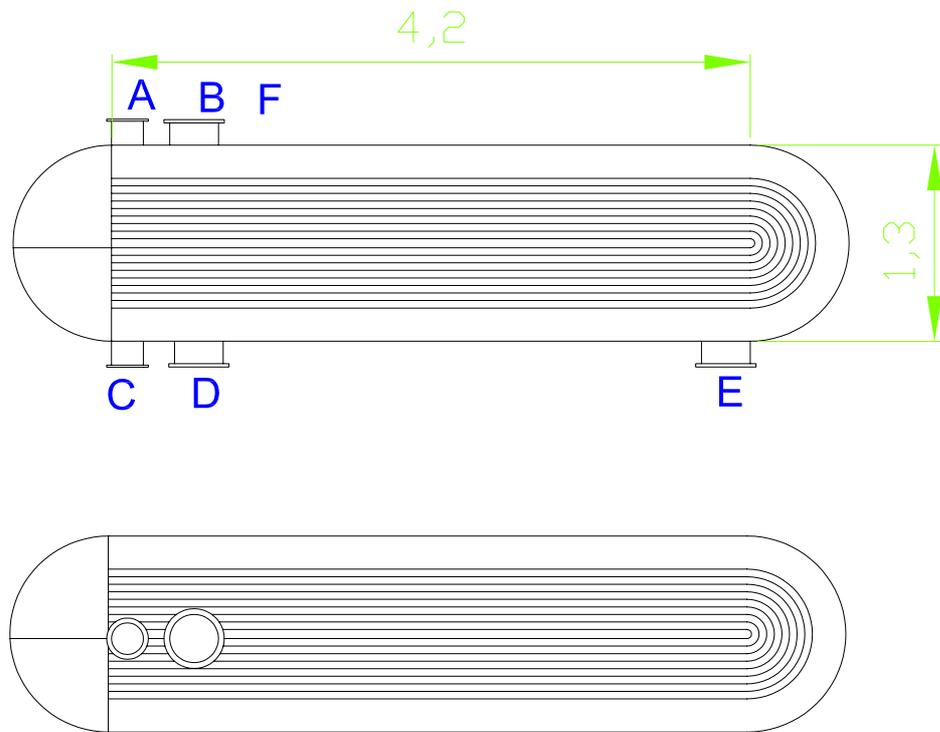
EQUIPO: reactor

ZONA: 200



ESCALA: 1:100-A4

NOMBRE:  
R-201A/B



EMPRESA:

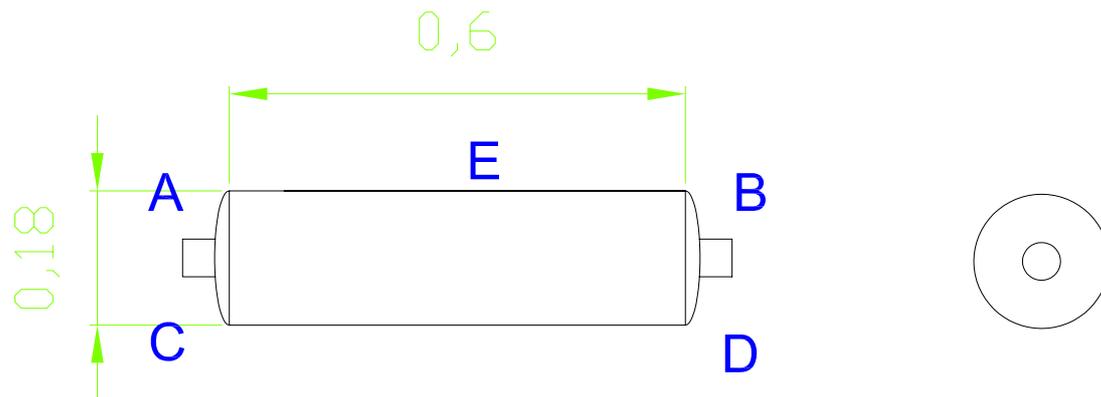
EQUIPO:  
reboiler

ZONA: 400

ESCALA: 1:50 -A4

NOMBRE:  
RE-401





EMPRESA:

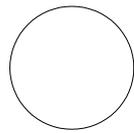
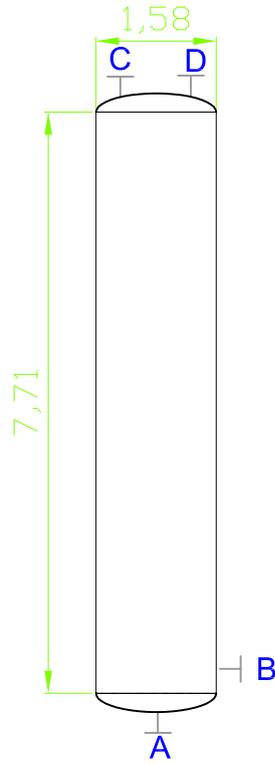
EQUIPO:  
resina

ZONA: 400



ESCALA: 1:10 -A4

NOMBRE:  
RS-401A/B



EMPRESA:



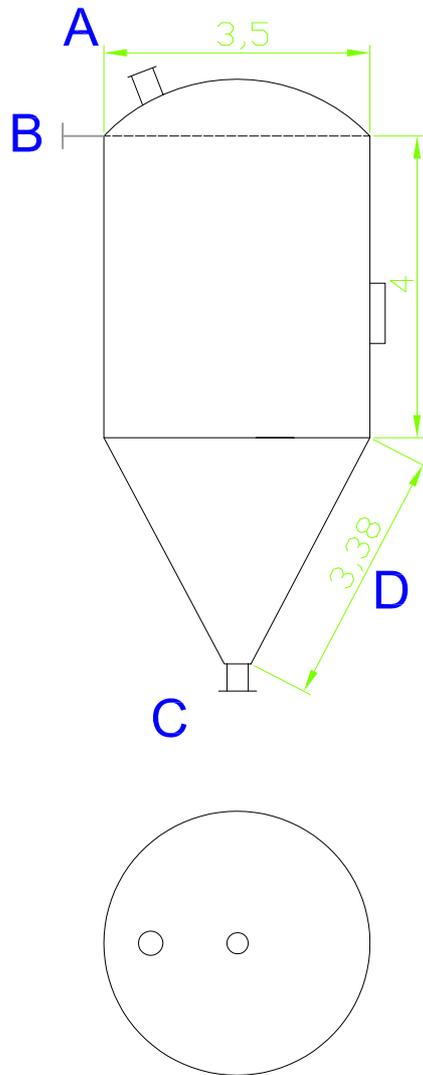
EQUIPO: secador

ZONA: 700

ESCALA: 1:100-A4

NOMBRE:

S-701



Empresa

EQUIPO: silo

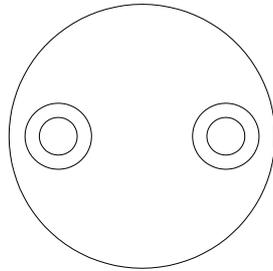
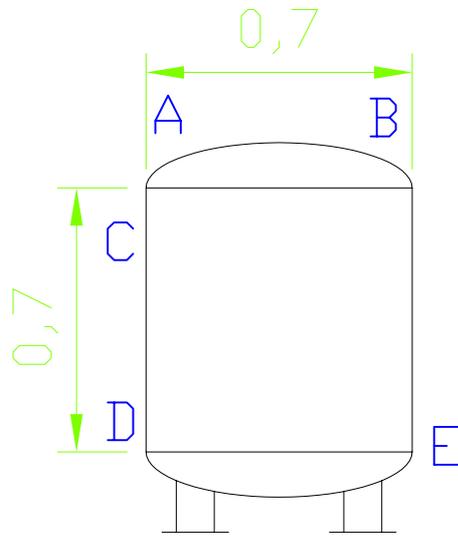
ZONA: 700



ESCALA: 1:100-A4

NOMBRE:

SI-701A/B/C/D/E/F



EMPRESA:

EQUIPO: tanque

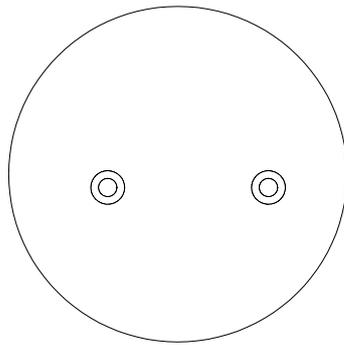
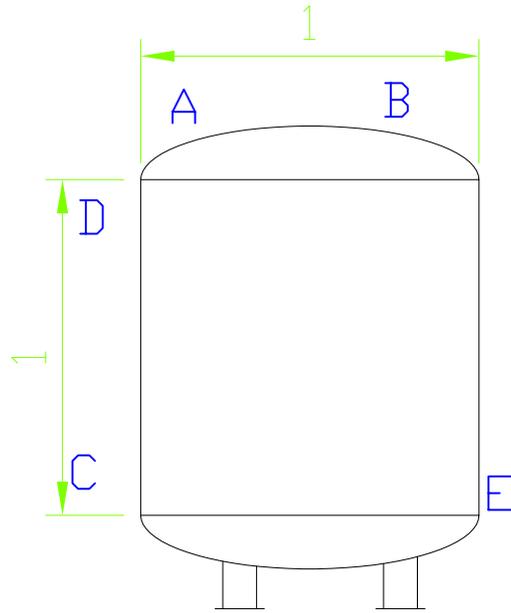
ZONA: 600



ESCALA: 1:20-A4

NOMBRE:

TK-602A/B



EMPRESA:

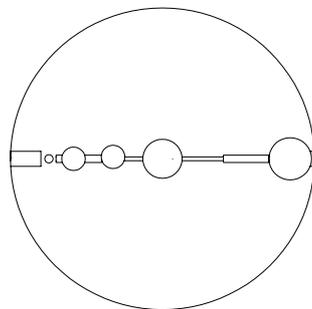
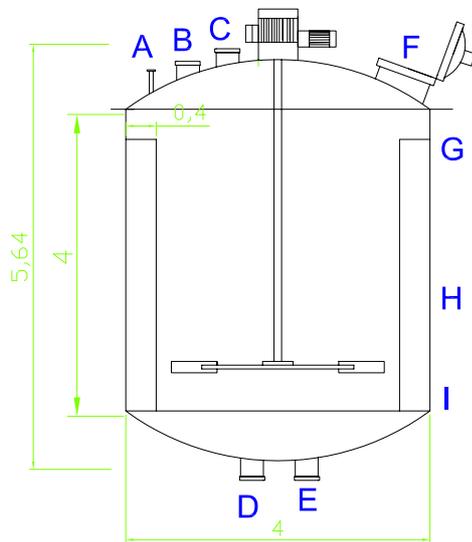
EQUIPO: tanque

ZONA: 600



ESCALA: 1:20-A4

NOMBRE:  
TK-601A/B



EMPRESA:

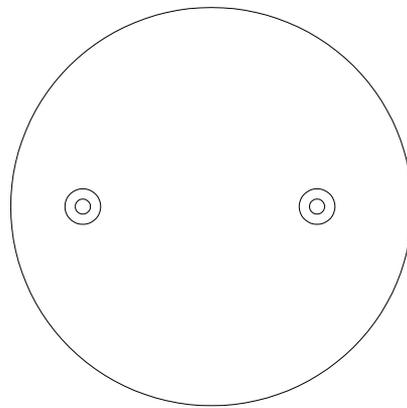
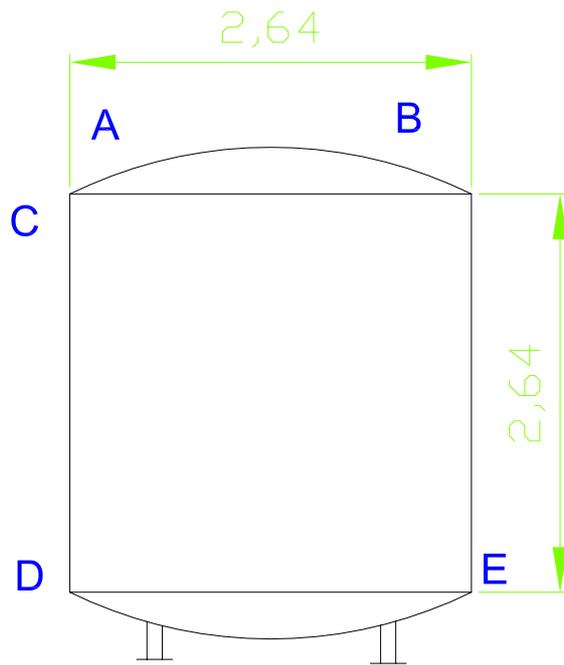


EQUIPO:  
tanque mezcla

ESCALA: 1:100-A4

ZONA: 200

NOMBRE:  
TK-201



EMPRESA:

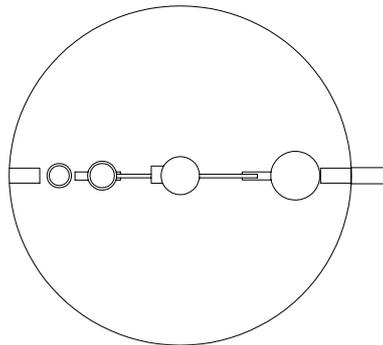
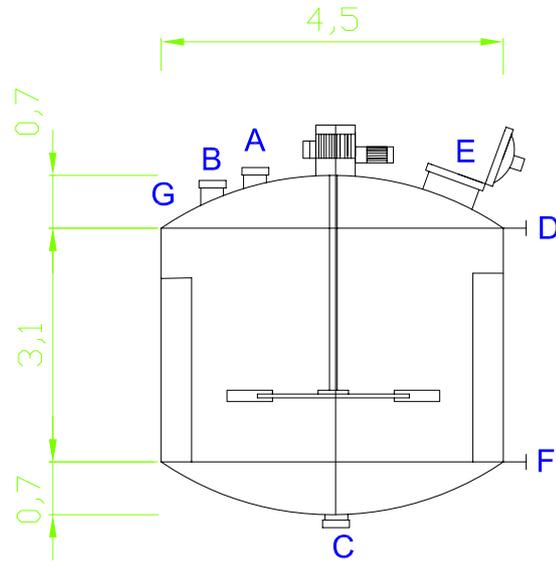
EQUIPO: tanque de mezcla

ZONA: 300

ESCALA: 1:50 -A4

NOMBRE:  
TK-302A/B





EMPRESA:

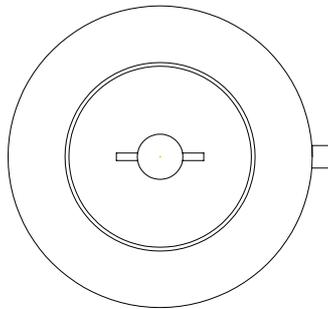
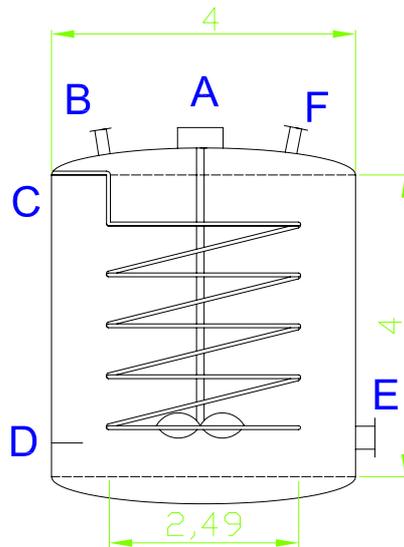


EQUIPO: tanque de mezcla

ESCALA: 1:50 -A4

ZONA: 300

NOMBRE:  
TK-301A/B



EMPRESA:

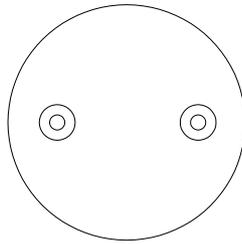
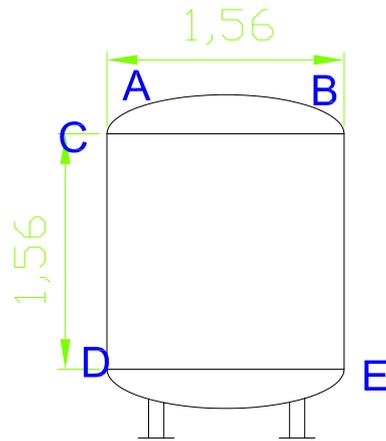


EQUIPO:  
tanque de redisolución

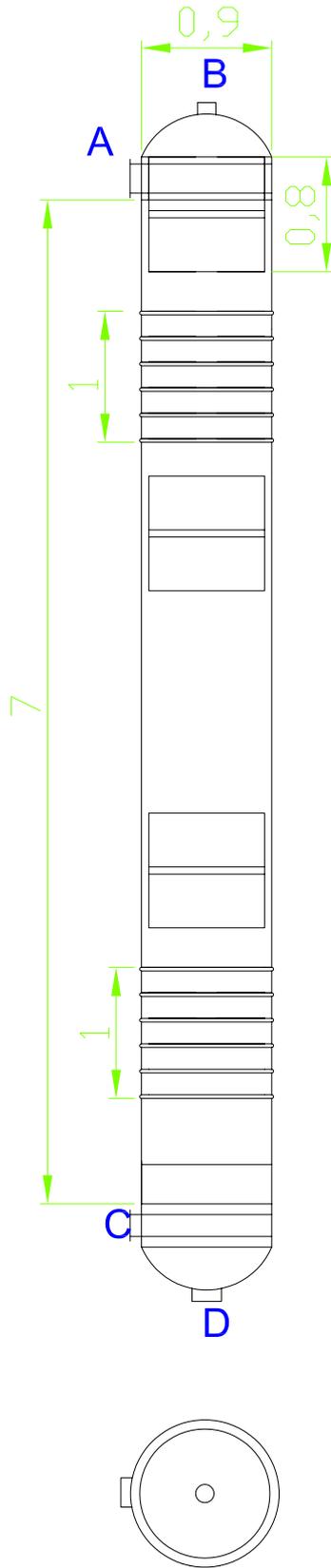
ESCALA: 1:100-A4

ZONA: 600

NOMBRE:  
T-601



EMPRESA:	EQUIPO: tanque	ZONA: 400
	ESCALA : 1:50-A4	NOMBRE: TK-401A/B



EMPRESA:

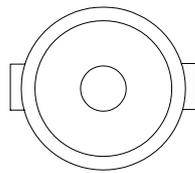
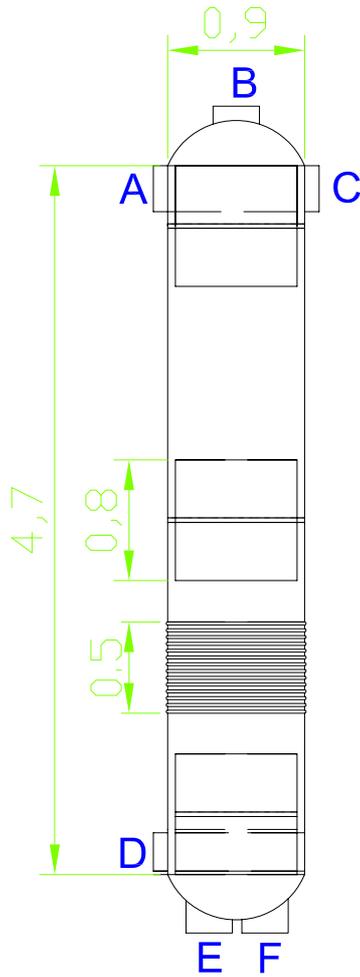
EQUIPO: torre  
de absorción

ZONA: 300



ESCALA : 1:50-A4

NOMBRE:  
TA-301



EMPRESA:

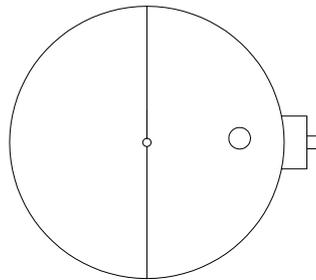
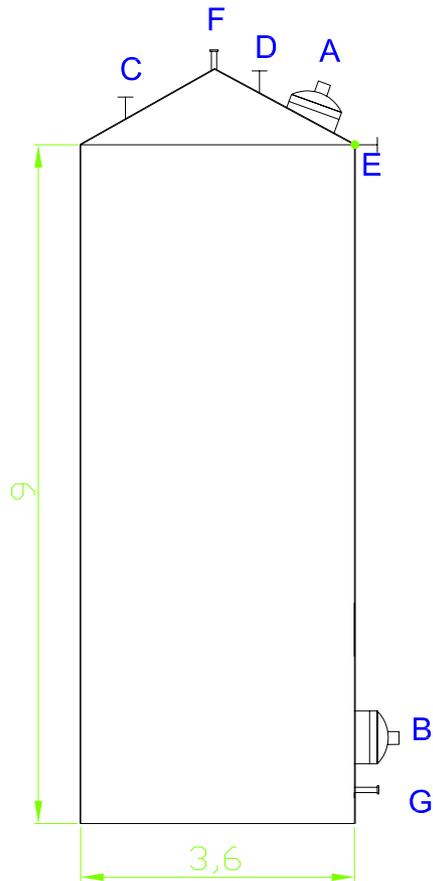


EQUIPO: torre  
de stripping

ESCALA: 1:50-A4

ZONA: 300

NOMBRE:  
TS-301



EMPRESA:

EQUIPO: tanque HNO<sub>3</sub>

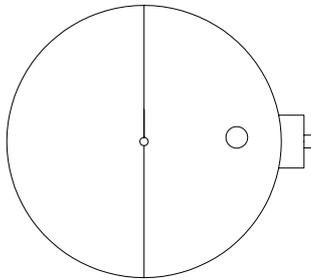
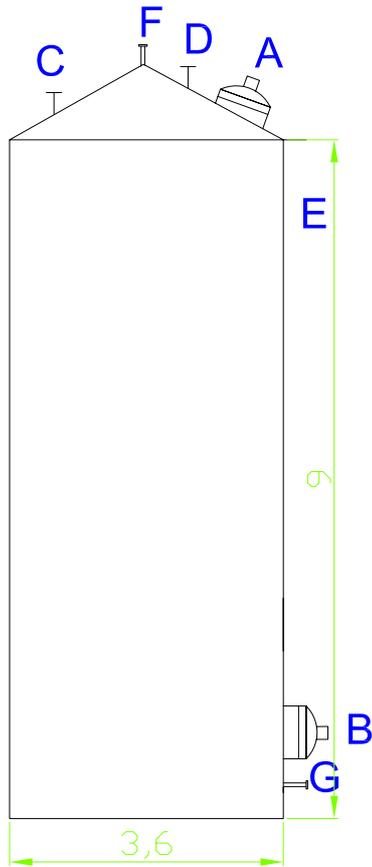
ZONA: 100



ESCALA: 1:100-A4

NOMBRE:

TK-101A/B/C/D/E/F/G/H/I



EMPRESA:



EQUIPO:  
tanque ciclohexanol

ESCALA: 1:100-A4

ZONA: 100

NOMBRE:  
TK-102A/B/C/D/E



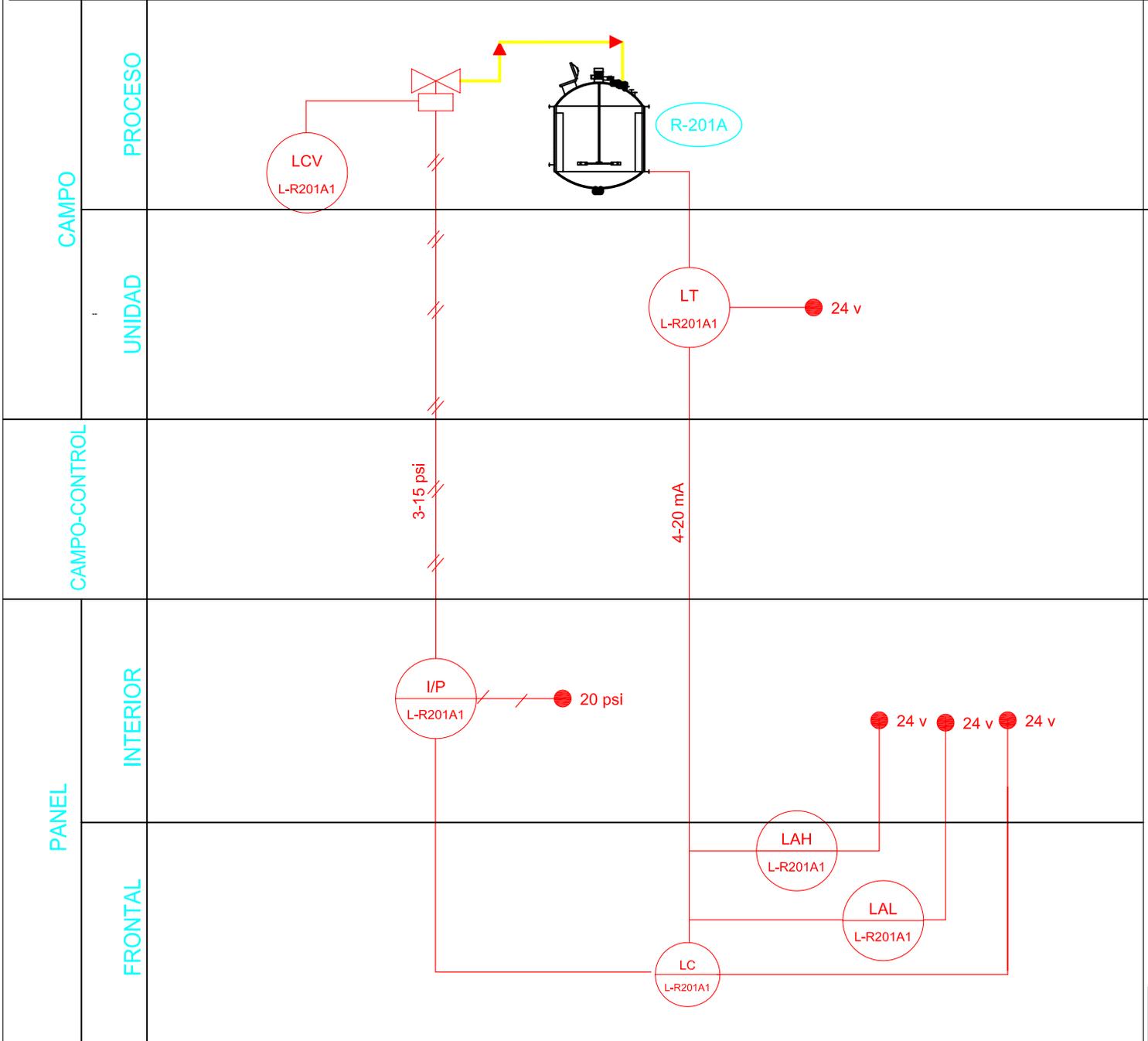
**ESPECIFICACIÓN**  
**LAZO DE CONTROL**  
 PLANTA : Producción de Ác. Adípico  
 LOCALIZACIÓN: Zona Franca

INTEM R-201A1  
 PROYECTE:  
 DISSENY:  
 FULL DE:

APROVAT:  
 ÁREA 200  
 FECHA 26/06/2008  
 PÁG:

ÍTEMS	DENOMINACIÓN
LTLR201A1	MEDIDOR DE NIVEL
LAH-R201A1	ALARMA MAXIMA
LAL-R-201A1	ALARMA MINIMA
IP-R-201A1	TRANSDUCTOR INTENSIDAD PRESION
LCV-L-201A1	VALVULA TODO-NADA
LC-L-201A1	CONTROLADOR INDICADOR DE NIVEL

COMENTARIOS: Estos lazos son igual en: R-201B, CR-601A, CR-601B, CR-601C, CR-601D, CR-602A, CR-602B, TK-301A, TK-301B





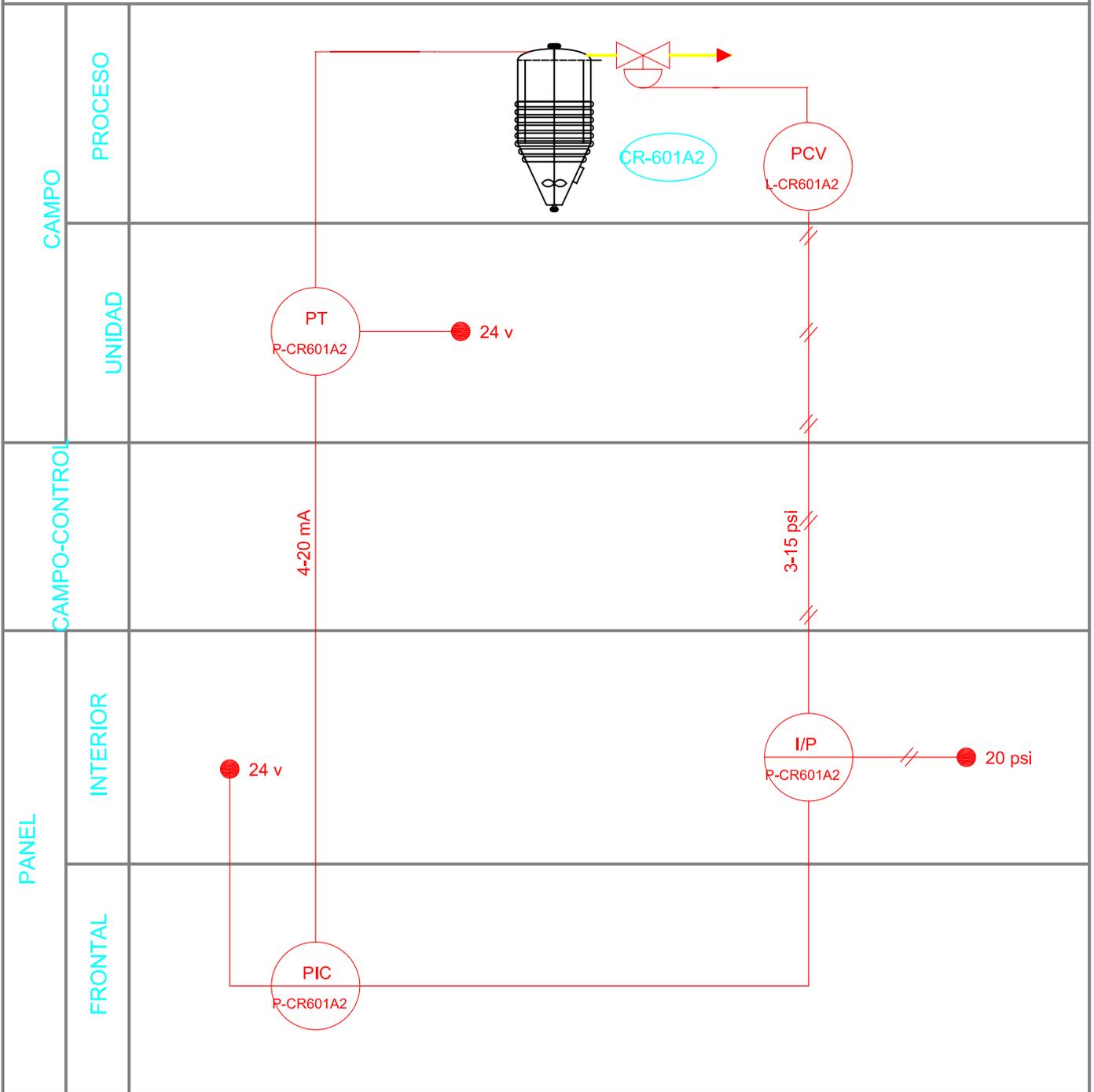
**ESPECIFICACIÓN**  
**LAZO DE CONTROL**  
 PLANTA : Producción de Ác. Adípico  
 LOCALIZACIÓN : Zona Franca

INTEM CR-601A  
 PROYECTE:  
 DISSENY:  
 FULL DE:

APROVAT:  
 ÁREA 600  
 FECHA 26/06/2008  
 PÁG:

ÍTEMS	DENOMINACIÓN
PT-CR601A2	Transmisión de presión
IP-CR601A2	Transductor intensidad- presión
PCV-CR601A2	Válvula de control
PC-CR601A2	Controlador, indicador de presión

COMENTARIOS: ESTOS LAZOS SON IGUALES: CR-601B,601C,601D,602A,602B,R-201A,R-601B





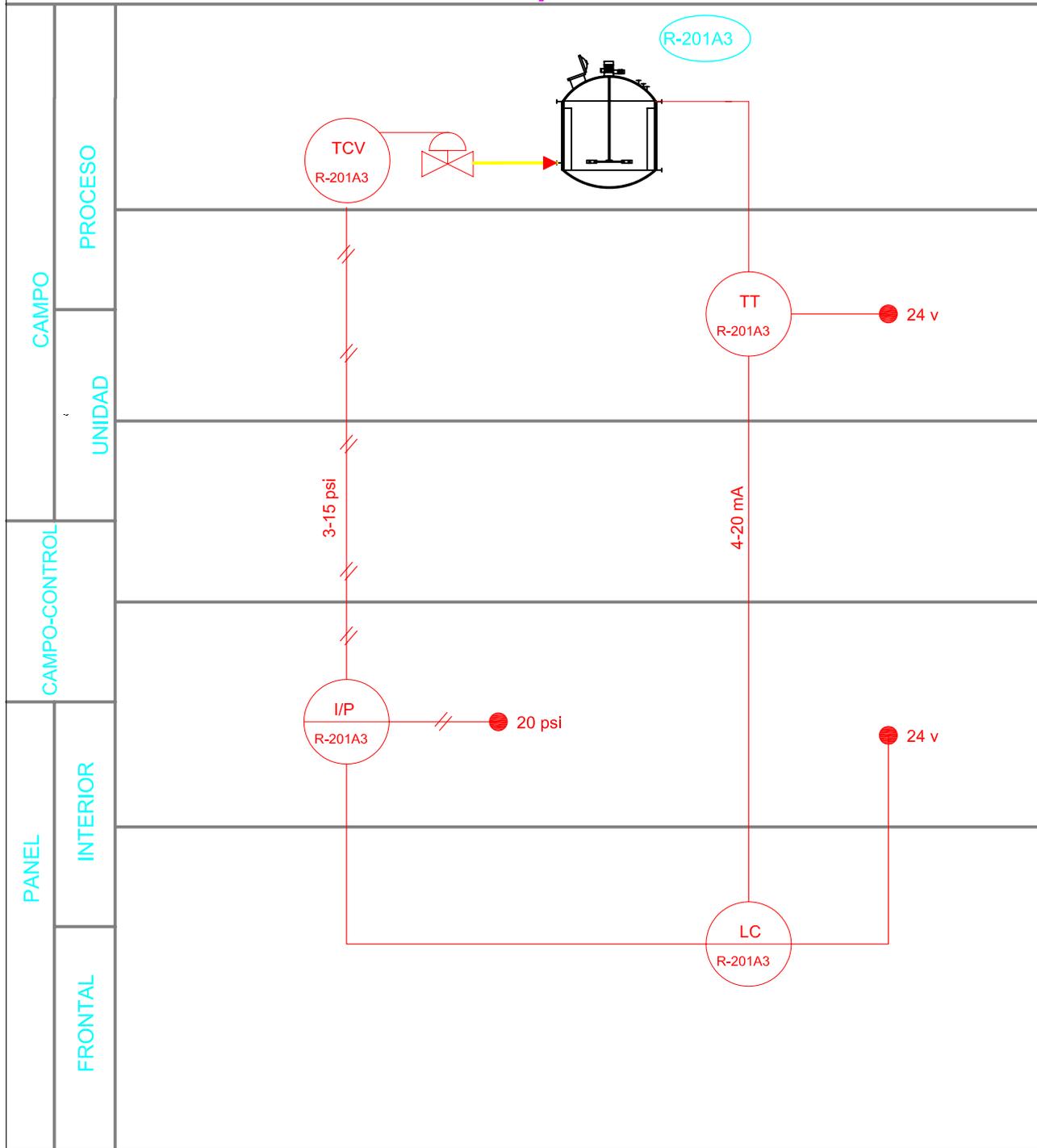
ESPECIFICACIÓN  
LAZO DE CONTROL  
PLANTA : Producción de Ác. Adípico  
LOCALIZACIÓN : Zona Franca

ITEM R-201A3  
PROYECTE:  
DISSENY:  
FULL DE:

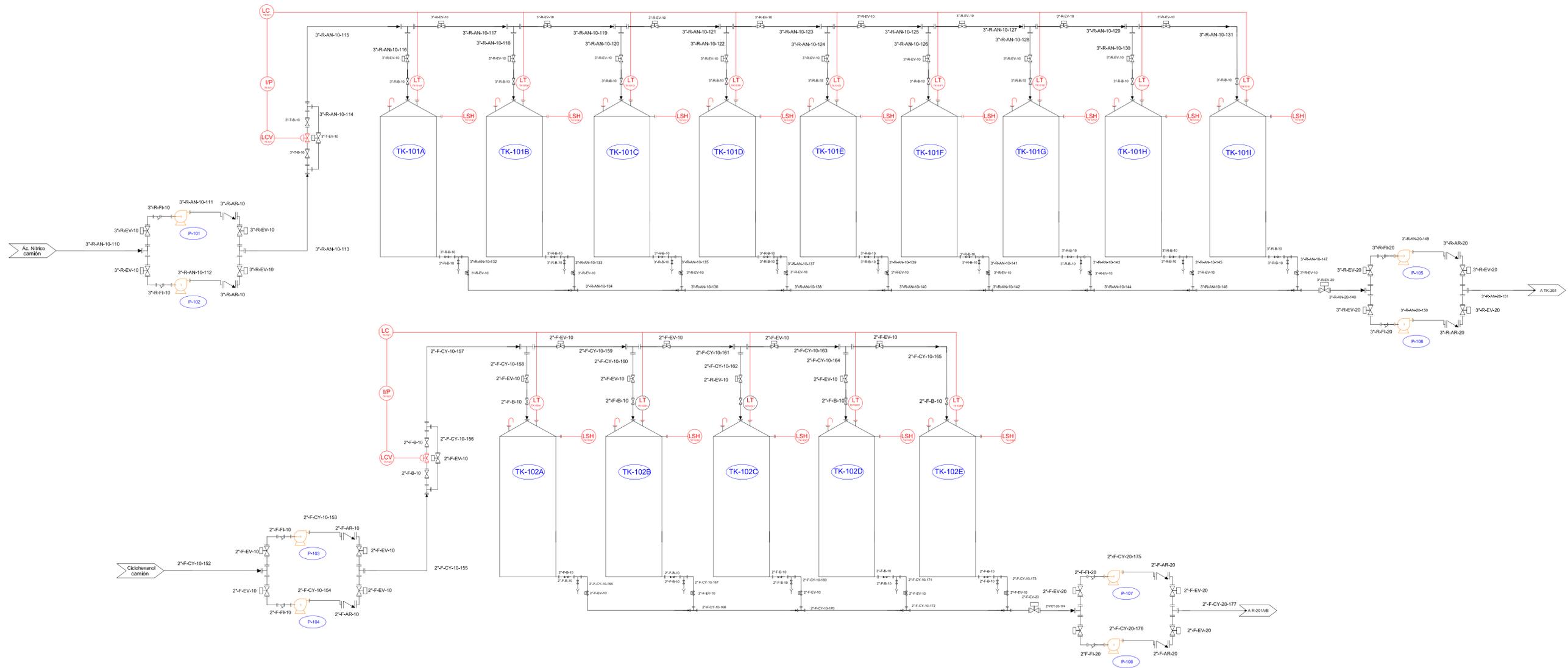
APROVAT:  
ÁREA 200  
FECHA 26/06/2008  
PÁG:

ÍTEMS	DENOMINACIÓN
TCV-R201A3	VALVULA DE CONTROL
IP-R201A3	TRANSDUCTOR INTENSIDAD-PRESIÓN
TC-R201A3	CONTROLADOR, INDICADOR DE TEMPERATURA
TT-R201A3	TRANSDUCTOR DE TEMPERATURA

COMENTARIOS: ESTOS LAZOS SON IGUALES: CR-601B,601C,601D,602A,602B,R-201A,R-601B







EMPRESA: Adipic Manufacturer

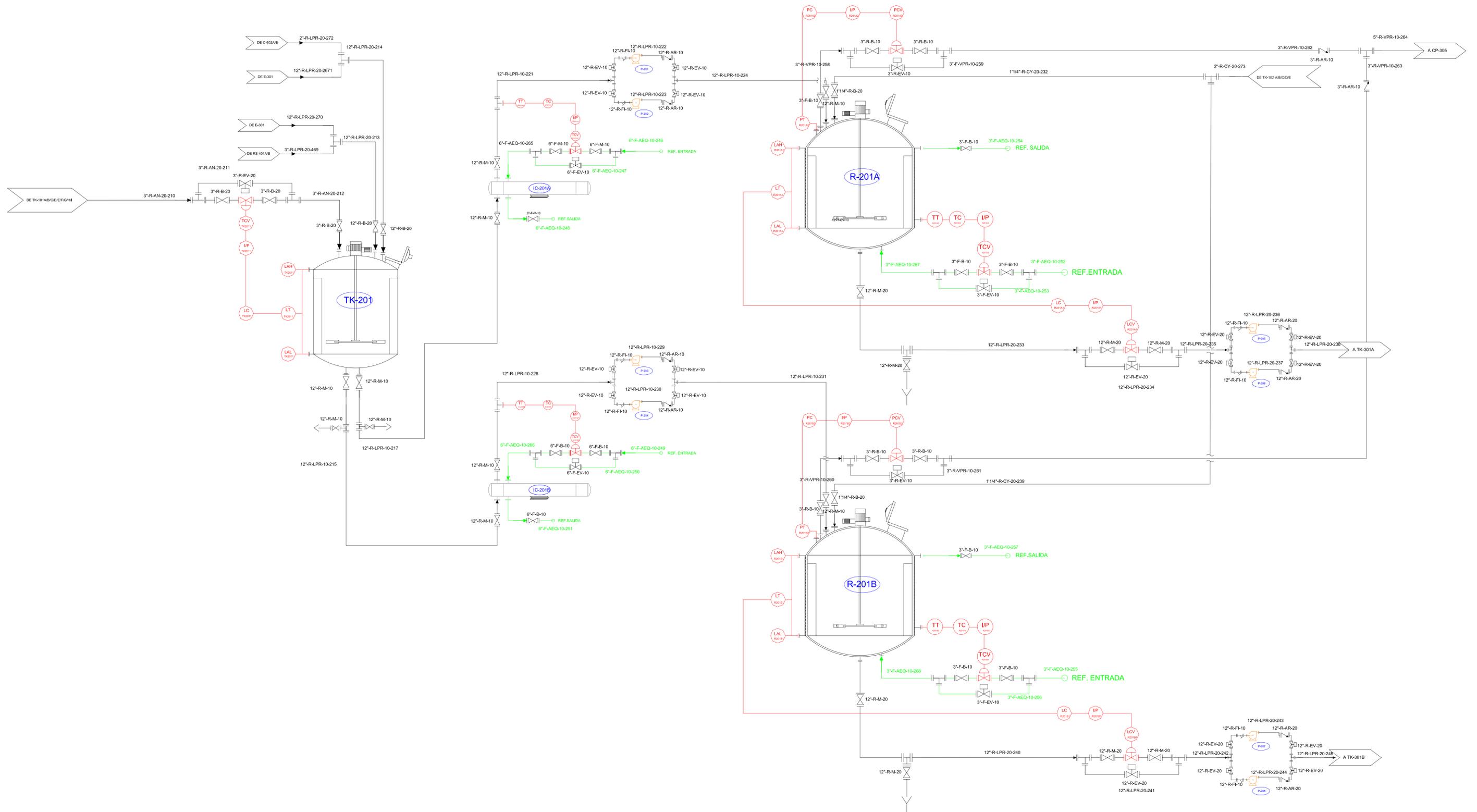


LUGAR: Zona Franca-Barcelona

PLANO: Diagrama de ingeniería

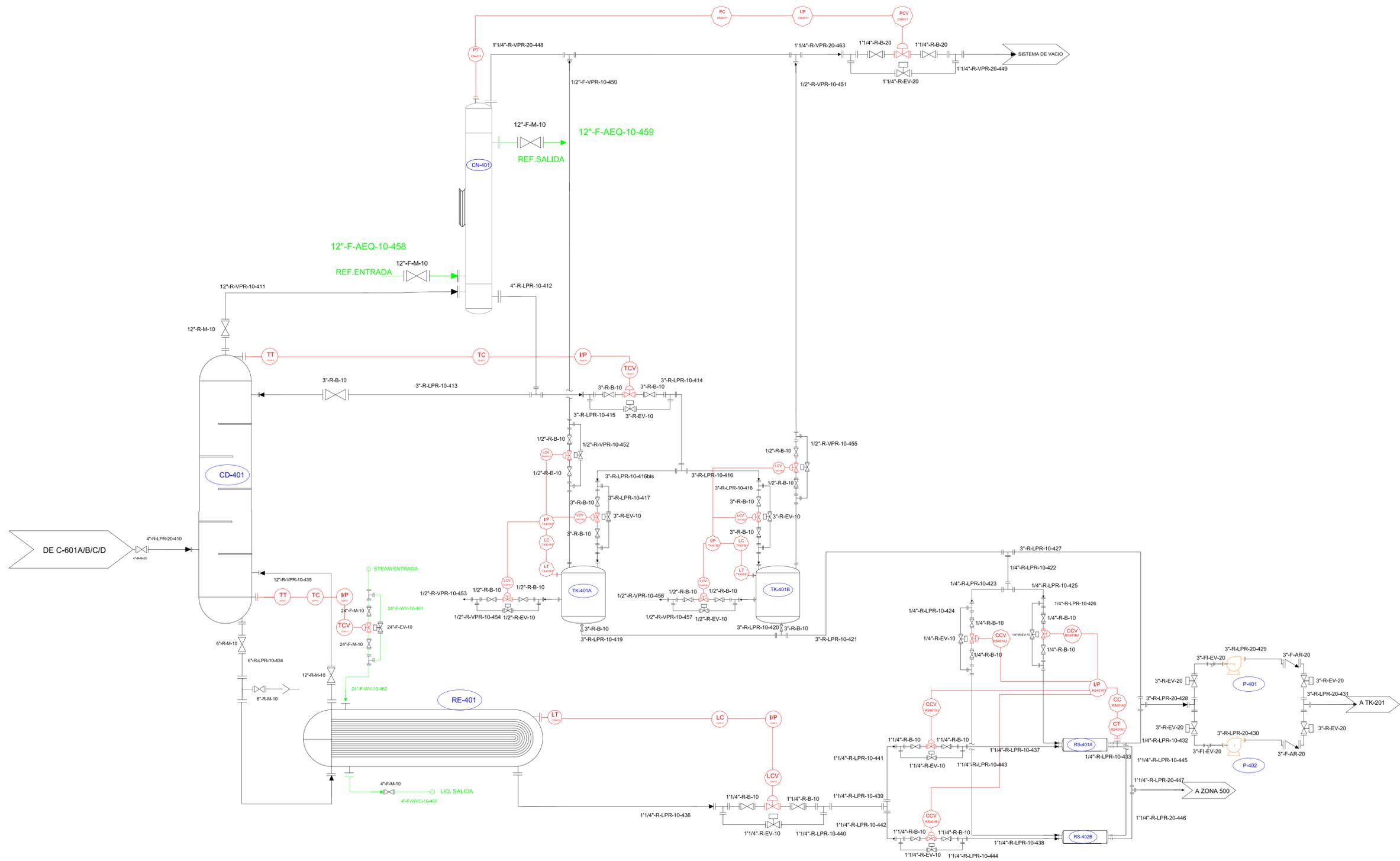
ZONA: 100

ESCALA: S/E-A1

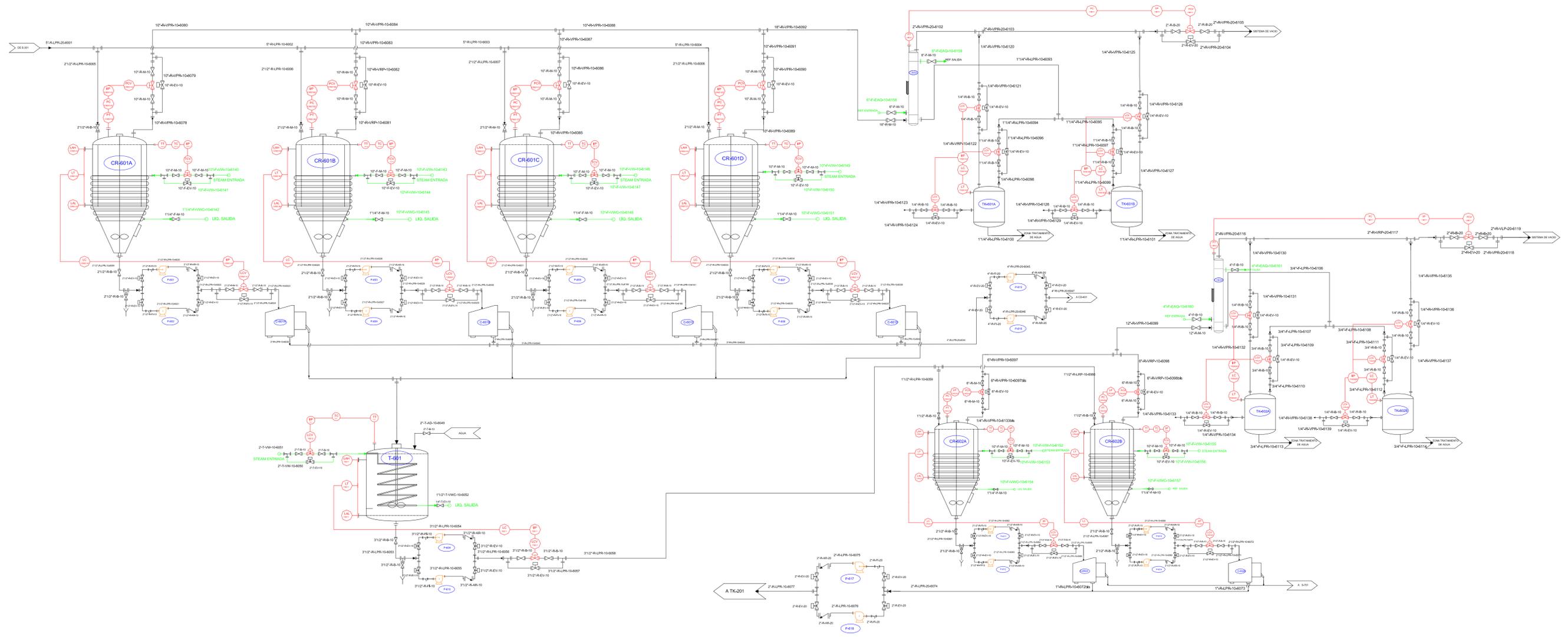


EMPRESA: Adipic Manufacturer		
LUGAR: Zona Franca-Barcelona		
PLANO: Diagrama de ingeniería	ZONA: 200	ESCALA: S/E-A1





EMPRESA: Adipic Manufacturer		
LUGAR: Zona Franca-Barcelona		
PLANO: Diagrama de ingeniería	ZONA: 400	ESCALA: S/E-A1



EMPRESA: Adipic Manufacturer

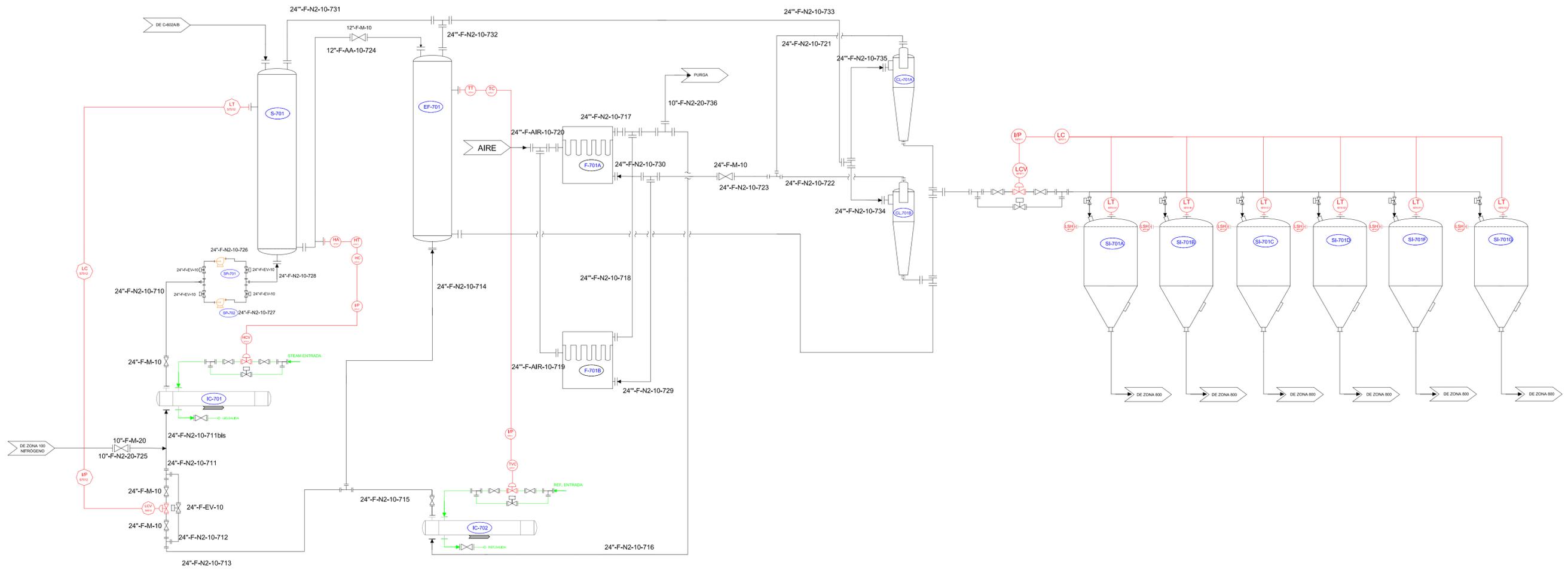
LUGAR: Zona Franca-Barcelona

PLANO: Diagrama de ingeniería

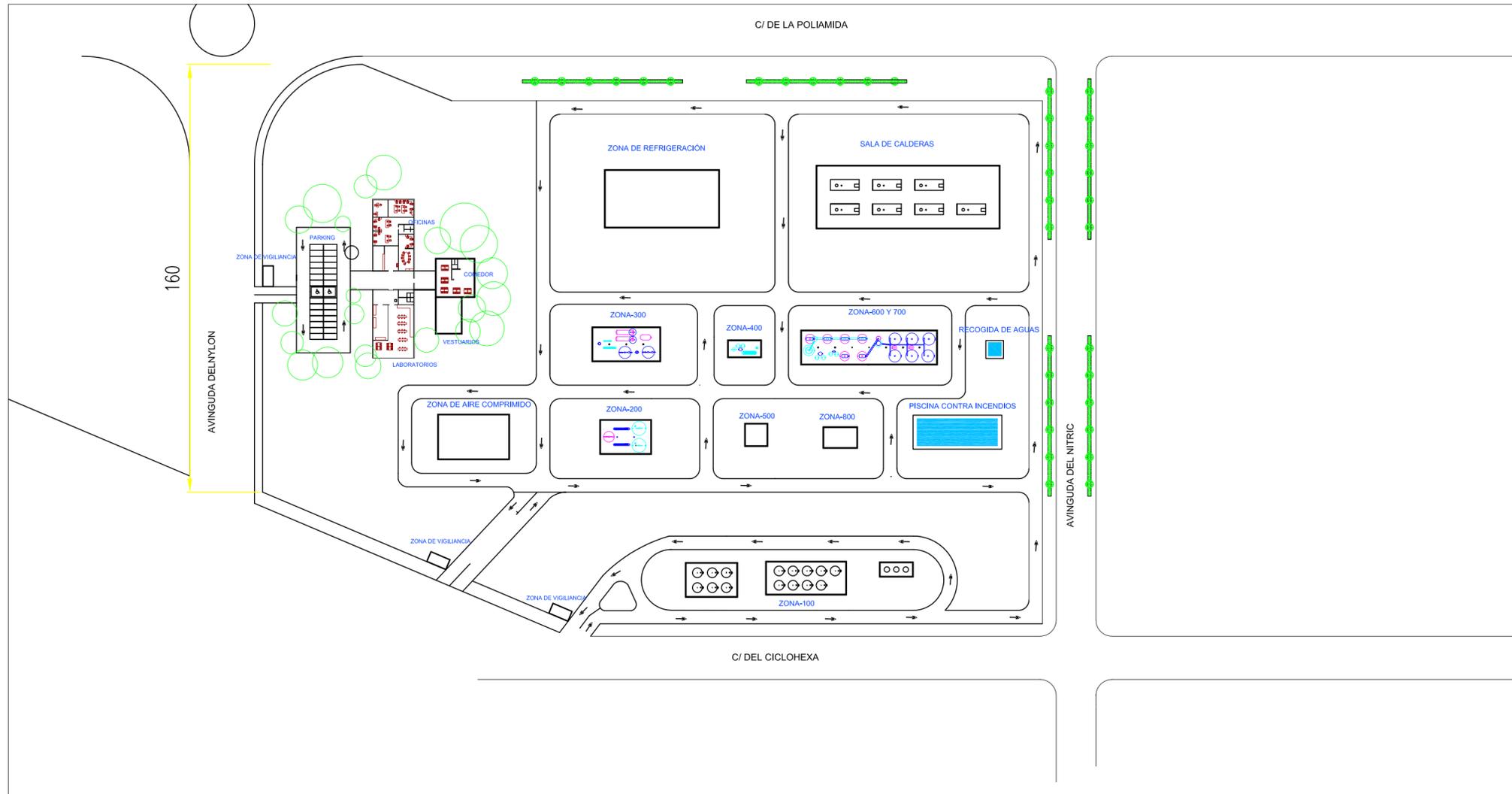
ZONA: 600



ESCALA: S/E-A1



EMPRESA: Adipic Manufacturer		
LUGAR: Zona Franca-Barcelona		
PLANO: Diagrama de ingeniería	ZONA: 700	ESCALA: S/E-A1



EMPRESA: Adipic Manufacturer		
LUGAR: Barcelona.Zona Franca.		
PLANO: Implantación	ZONA:	ESCALA: 1:2000-A3

