



Parr Instrument Company

Let us build one for you!

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Booth 610



Four Questions

- Who?
- What?
- Why?
- How?



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Who?

Parr is:

- US Manufacturer
- 100 Employees
- Ships to 70 countries
- 125 years old
- Privately owned



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What?

Parr makes:

- High pressure, high temperature batch reactors/vessels
 - 5mL - 100L
 - Up to 500°C (down to -196°C)
 - Up to 5000psi (down to FV)
 - 316SS, C276/Inconel/hi-nickel alloys, titanium, zirconium, others
 - All to ASME code



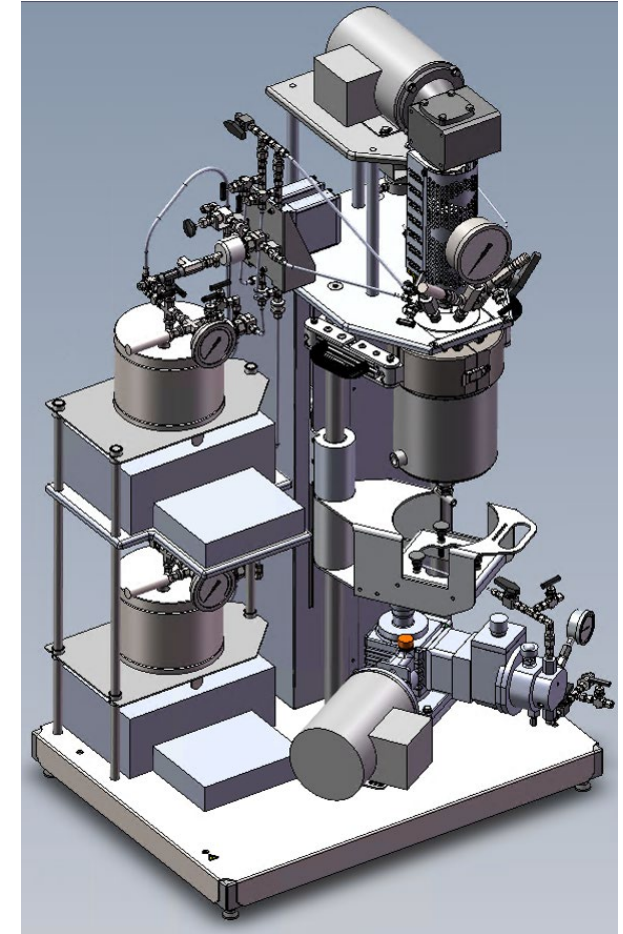
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What? (part 2)

Parr also makes:

- Continuous flow systems
- High pressure, high temp
- Both tubular and CSTR



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Why?

Parr will:

- Discuss your application
- Help you identify appropriate equipment
- Customize (nearly) any item
- Still deliver quickly
- Support you forever

Why Here, Why Now?

- New factory, new machines, new in-house capabilities



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How?

Parr needs:

- Your name/contact info
- Brief process narrative/equipment specs
- PFD, if available
- Working pressure, temperature, and volume/scale
- Control requirements



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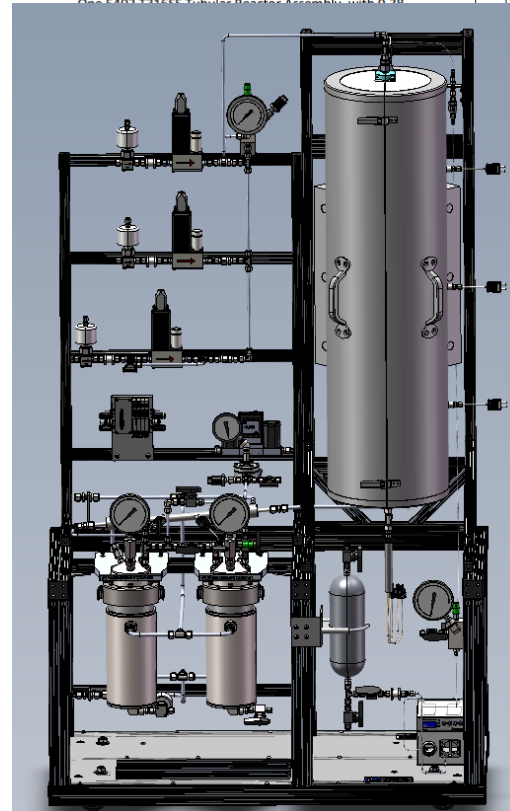
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What Then?

- Parr and User will discuss/scope as needed
- Parr will prepare a quotation
- User will send PO
- Parr will create 3D model
- User will review/comment/approve
- Parr will build equipment/control system
- User will have option to visit Parr to verify build
- Parr will ship the equipment
- User will install equipment
- Parr will support/assist, as agreed



Qty	Description
1	Tubular Reactor System 5402-F-SS-230-ST3(36)-200-PCC-GF(3)-LF(1)-CLT-IZT-CCD-GLS(2000)-WJ-4600-2L-APC-ASV(3)
	GAS FEED: Three reactant gas feed lines, each with normally-close valve, filter, Mass Flow Controller (MFC), and reverse-fl otherwise specified, the MFCs are calibrated, respective 40 psig MFC inlet pressure and 20 psig MFC outlet pres nitrogen at 50 psig MFC inlet pressure and 20 psig outli bypass valve. The maximum inlet pressure for each MF valve control box requires 105 psig (7.2 barg) dry air or
	LIQUID FEED: One liquid feed module is included with a 304SS 2L liq isolation ball valves and T316SS metering pump that ca pressures up to 200 psi with fluids having a viscosity le supplied with a filtered inlet line and a downstream re The pump discharge line includes a tee and valving for pressure relief valve set to 200 psi.
	REACTOR MODULE: One 5402-T316SS Tubular Reactor Assembly with 0.38



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Griffin Ballroom

	Apeiron 906	Lechler 908	Clarian 912	Akron 913	Aquase 916	Custom 918	Superic 920	ProSys 922	Porous 926	SAMOA 928	Global 930	Arch Sp 932	
GPS 120	Neur 119	CJB I 218	Custc 219	Third 318	Ivanh 319	Clear 418	DGeo 419	Calca 518	Amer 519	Unco 618	Exsif 619	Chem 718	Pure 821
Total 118	Carp 117	Bould 216	Forbe 217	Biddl 316	Kingc 317	Rous 416	Actal 417	Paul 516	Amin 517	Treco 616	CECO 617	Wiley 716	Booth 610
	Gann 115	Powd 214	Provi 215	Sone 314	AVEK 315	Havil 414	Procc 415	EPIC 514	Monu 515	Univa 614	VEGA 615	KemK 714	
	The S 113	CREM 212	Deep 213	ASTE 312	Kurak 313	LCI C 412	Oakw 413	Roya 512	Buck 513	SCHV 612	Repu 613	Maus 712	
Power 110	Rierd 111	Chem 210	Infor 211	Appli 310	Louis 311	Blue 410	Valen 411	Curre 510	Comp 511	Parr 610	Feder 611	Admi 710	Avid 811
	CAS 109	Seate 208	InChe 209	GfM 308	MFG 309	Shred 408	COEX 409	Data 508	Santc 509	BUSS 608	Oden 609	Catex 708	
	Thale 107	Minas 206	Sinoc 207	Hamp 306	Thom 307	ProC 406	LBB 407	J. Ret 506	Adesi 507	AVN 606	Weyk 607	Halls 706	
	South 105	Press 204	Empo 205	Bepe 304	LANX 305	Rock 404	Aethe 405	Elan 504	IPP - 505	BSI E 604	Ortec 605	Comp 704	
SGS 102	Hoov 103	Natio 202	Chem 203	Polys 302	Chev 303	Optin 402	McGe 403	Centa 502	Toll S 503	FAR C 602	Ascer 603	GFS C 702	
Thate 100													
	Cent 1033	Catalyn 1031	Sage 1029	Cambro 1027	Syntha G Ethox Ch 1021	Frankli 1021	Yufeng 1035	TRCC S 1009	EMCO C 1001	RiKarb 1062	Special 1063	Special 1065	

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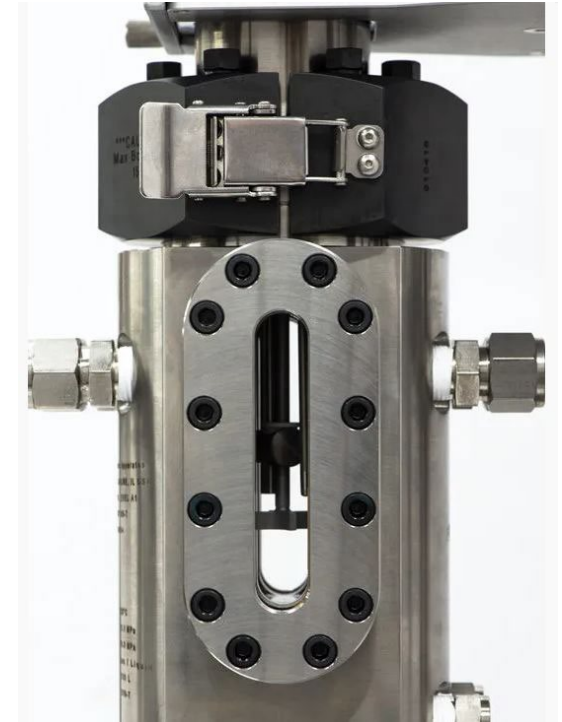
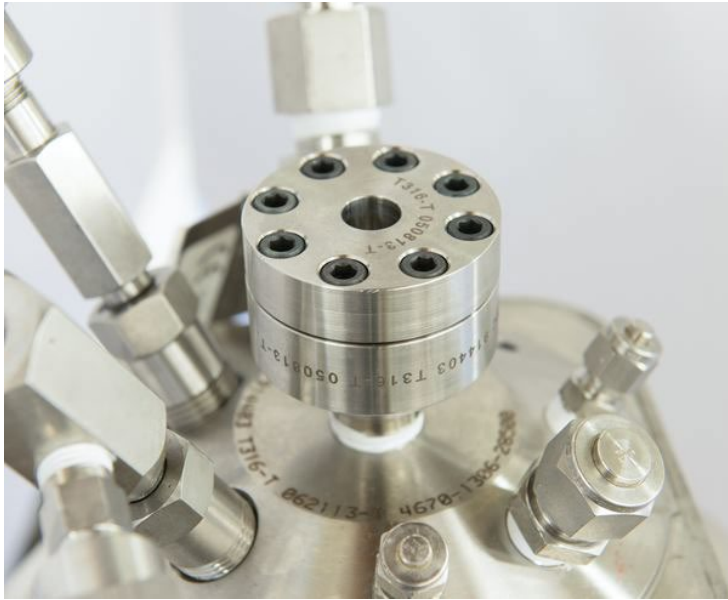


Ballroom Entrance

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Options

-Windows – allow observation of color changes and changes of state. Several options available.



Options

-Stirrer Geometry - Based on application and reactor contents. Stirring speed limits should be considered.



Options

-Liquid Sampling – Manual or Automated. Useful for off-line analysis of vessel contents without depressurizing.



Options

-Controllers with Modules – Pressure Display, Auxiliary Temp Display, Motor Control with Tach Display. Allow visualization and logging of setpoint and process values.



More Options

- Liquid Charging Pipettes
- Gas Burettes
- Catalyst Charging Devices, Internal and External
- Condensers, Reflux and Reflux-Take Off
- Bottom Drain Valves (BDV)
- Glands
- Probes
- ...and many more

