

# AWL OBRC Range–Model Comparisons

Unit	Process Capacity (Working Volume)	Vessel Length & Total Volume Per Vessel	Wetted Parts			Operating Parameters					Mechanical Details		
			Borosilicate 3.3 Glass / PTFE / PEEK / FEP / FFKM	Stainless Steel 316L PTFE / PEEK / FEP / FFKM	C22 & C276 Alloy PTFE / PEEK / FEP FFKM	Temperature Range (°C)	Oscillator Frequency (Hz)	Oscillator Amplitude (mm)	Process Operating Pressure (bar gauge)	Jacket Operating Pressure (bar gauge)	Instrument Access	Weight (Approx)	Dimensions (mm) (width x depth x height) (Approx)
<b>DN25 Glass OBRC</b>	110 ml	275 mm 135 ml	✓	✗	✗	-20 ~ +120	0.1 ~ 6.0	5 ~ 60	Ambient	0 ~ 1.0 (glass jacket)	1 Collar (2 access points)	35kg	410 x 410 x 815 (unit) 525 x 400 x 310 (controls)
<b>DN40 Glass OBRC</b>	280 ml	275 mm 345 ml	✓	✗	✗	-20 ~ +120	0.1 ~ 6.0	5 ~ 60	Ambient	0 ~ 1.0 (glass jacket)	1 Collar (2 access points)	40kg	410 x 410 x 815 (unit) 525 x 400 x 310 (controls)
<b>DN25 Cluster OBRC</b>	220 ml (twin) 440 ml (quad)	275 mm 135 ml	✓	✗	✗	-20 ~ +120	0.1 ~ 6.0	5 ~ 60	Ambient	0 ~ 1.0 (glass jacket)	1 Collar (2 access points) Per Vessel	35kg Per Vessel	600 x 500 x 900 (twin) 1100 x 500 x 900 (quad) 300 x 600 x 410 (controls)
<b>DN40 Cluster OBRC</b>	560 ml (twin) 1.12 litres (quad)	275 mm 345 ml	✓	✗	✗	-20 ~ +120	0.1 ~ 6.0	5 ~ 60	Ambient	0 ~ 1.0 (glass jacket)	1 Collar (2 access points) Per Vessel	40kg Per Vessel	600 x 500 x 900 (twin) 1100 x 500 x 900 (quad) 300 x 600 x 410 (controls)
<b>DN47 Glass OBRC</b>	2.6 litres (single) 5.2 litres (twin)	1600 mm 2.77 litres	✓	✗	✗	-20 ~ +120	0.1 ~ 6.0	5 ~ 70	Ambient	0 ~ 1.0 (glass jacket)	2 Collars (4 access points)	360 kg	1000 x 650 x 2400 (Fixed Position) 1350 x 800 x 2400 (movable)
<b>DN47 HP OBRC</b>	2.6 litres (single) 5.2 litre (twin)	1600 mm 2.77 litres	✗	✓	●	-20 ~ +120	0.1 ~ 6.0	5 ~ 70	10.0	0 ~ 1.0 (316L jacket)	4 access points	380 kg	1000 x 650 x 2400 (Fixed Position) 1350 x 800 x 2400 (movable)
<b>DN60 Glass OBRC</b>	4.25 litre (single) 8.5 litres (twin)	1600 mm 4.5 litres	✓	✗	✗	-20 ~ +120	0.1 ~ 6.0	5 ~ 90	Ambient	0 ~ 1.0 (glass jacket)	2 Collars (6 access points)	380 kg	1000 x 650 x 2500 (Fixed Position) 1350 x 800 x 2500 (movable)
<b>DN60 HP OBRC</b>	4.25 litres (single) 8.5 litres (twin)	1600 mm 4.5 litres	✗	✓	●	-20 ~ +120	0.1 ~ 6.0	5 ~ 90	10.0	0 ~ 1.0 (316L jacket)	6 access points	400 kg	1000 x 650 x 2500 (Fixed Position) 1350 x 800 x 2500 (movable)
<b>DN100 Glass OBRC</b>	11.75 litres (single) 23.5 litres (twin)	1600 mm 12.5 litres	✓	✗	✗	-20 ~ +120	0.1 ~ 3.0	5 ~ 150	Ambient	0 ~ 1.0 (glass jacket)	2 Collars (6 access points)	420 kg	1000 x 650 x 2600 (Fixed Position) 1350 x 800 x 2600 (movable)
<b>DN100 HP OBRC</b>	11.75 litres (single) 23.5 litres (twin)	1600 mm 12.5 litres	✗	✓	●	-20 ~ +120	0.1 ~ 3.0	5 ~ 150	10.0	0 ~ 1.0 (316L jacket)	6 Access Points	460 kg	1000 x 650 x 2600 (Fixed Position) 1350 x 800 x 2600 (movable)

KEY: ✓ Standard      ● Optional      ✗ Not Available

Note: All models from the DN47 upwards can be supplied as a single or twin vessel configuration on the same skid. Single configurations can all be upgraded to twins at any time

STANDARD ITEMS OR OPTIONAL EXTRAS	DN25 Glass OBR	DN40 Glass OBR	DN25 Cluster OBR	DN40 Cluster OBR	DN47 Glass OBR	DN47 HP OBR	DN60 Glass OBR	DN60 HP OBR	DN100 Glass OBR	DN100 HP OBR
Increased maximum process operating temperature range from 120°C to 150°C	●	●	●	●	●	●	●	●	●	●
Increased maximum process operating temperature range from 150°C to 200°C	✗	✗	✗	✗	●	●	●	●	●	●
Increased process operating pressure from 10.0 bar to 25.0 bar	✗	✗	✗	✗	✗	●	✗	●	✗	●
Twin Vessel	✗	✗	✓	✓	●	●	●	●	●	●
Reactor mounted and HMI controlled pumps – low pressure	● <sup>1</sup>	● <sup>1</sup>	● <sup>1</sup>	● <sup>1</sup>	●	●	●	●	●	●
Reactor mounted and HMI controlled pumps – high pressure	✗	✗	✗	✗	✗	●	✗	●	✗	●
Touch Screen – 3.5"	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
Touch Screen – 5.6"	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓
Touch Screen – 9"	✗	✗	●	●	●	●	●	●	●	●
Additional process connection points	●	●	●	●	●	●	●	●	●	●
Bespoke connection adapters to suit end user PAT	●	●	●	●	●	●	●	●	●	●
Additional feed/instrument collars	●	●	●	●	●	✗	●	✗	●	✗
Additional instrumentation, e.g. pH probes, pressure transmitters, thermocouples (K-Type)	●	●	●	●	●	●	●	●	●	●
Sparge insert for gas/liquid reactions	●	●	●	●	●	●	●	●	●	●
DCS Control via OPC Server	●	●	●	●	●	●	●	●	●	●
On-board data logging	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sight Glasses	✗	✗	✗	✗	✗	●	✗	●	✗	●
ATEX compliant	✗	✗	✗	✗	●	●	●	●	●	●
Fully Jacketed Process Vessel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temperature controlled transfer lines In / Out	●	●	●	●	●	●	●	●	●	●
Separate control panel	✓	✓	✓	✓	●	●	●	●	●	●
Separate operating panel	✓	✓	✓	✓	●	●	●	●	●	●
240V 50Hz as standard – other regional voltage configurations available	●	●	●	●	●	●	●	●	●	●
Alternative materials of construction / wetted parts	●	●	●	●	●	●	●	●	●	●

Note: Twin vessel options fit on the same framework as the single vessel thereby giving extra throughput and flexibility of operations e.g. semi-continuous possibilities

Note: All pressures quoted are bar gauge

1: pumps will be mounted separately due to space constraints