

## ***Microbulk On-site Storage Systems*** ***Efficient, economical and reliable supply*** ***for small-volume users***

On-site gas delivery makes sense for many industrial, scientific and healthcare applications—especially for small-volume users. Air Products understands your need to increase operational efficiencies while controlling gas costs. Our microbulk services and on-site storage systems provide a reliable, cost-effective alternative to cylinders for your nitrogen, argon or oxygen supply.

### ***Microbulk gas storage systems are engineered for maximum efficiency***

Microbulk storage systems are designed for fast fills which help to minimize traffic congestion at your facility. Smaller tanks can be filled in as little as three minutes without interrupting your operations. In addition, each tank is equipped with an automatic fill shutoff device which helps ensure an efficient delivery with your safety in mind.

The exceptional thermal quality of these systems limits product loss during extended periods of little or no use. Idle pressure build-up is lower than traditional liquid tanks.

### ***Outstanding features mean exceptional performance***

With sizes, pressures and configurations to help meet your needs, including high-pressure, high-flow models for laser-assist gases, our microbulk on-site storage systems provide flexibility for your operation. Product features include:

- Programmable digital liquid level gauge that enables you to manage your inventory and guard against runouts
- Optional remote alarms and telemetry monitoring programs
- Outdoor or indoor installation
- Optional wall box for remote filling
- Portable 230-liter containers
- 450-, 1000- and 1500-liter permanently installed containers with flexible site preparation options

### ***Talk to us about a microbulk on-site storage solution to suit your business***

We believe in working closely with our customers. The fact that we pioneered the concept of on-site industrial gas supply is proof of that belief.

Using small tank trucks and on-site storage containers, our microbulk service provides the advantages of bulk supply to customers whose usage is less than traditional bulk delivery volumes.



Air Products' microbulk specialists can help you find ways to increase operational efficiencies and reduce costs with on-site storage.



## Microbulk on-site storage containers

### SPECIFICATIONS

DESCRIPTION	230L MP Sq Base w/Casters	230L MP Rnd Base w/Casters	230L C HP, LCCM Sq Base w/Casters	230L C HP, LCCM Rnd Base w/Casters	450L HP Plate Base	450L MP Plate Base	450L HP Plate Base	450L VHP Plate Base	1000L HP Plate Base	1000L VHP Plate Base	1500L HP Pallet Base	1500L VHP Pallet Base
<b>CAPACITY (Liters)</b>												
Gross	240	240	240	240	450	450	450	450	1,056	1,056	1,550	1,550
Net	230	230	230	230	420	420	420	420	950	950	1,455	1,455
<b>MAWP</b>												
psig	235	235	350	350	350	250	350	500	350	500	350	500
bar	16.2	16.2	24.1	24.1	24.1	17.2	24.1	34.5	24.1	34.5	24.1	34.5
<b>Maximum Operating Pressure (pre-set)</b>												
psig	125	125	300	300	300	125	300	450	300	450	300	450
bar	8.6	8.6	20.7	20.7	20.7	8.6	20.7	31.0	20.7	31.0	20.7	31.0
<b>DESIGN SPEC</b>	DOT	DOT	DOT	DOT	DOT	ASME	ASME	ASME	ASME	ASME	ASME	ASME
<b>STORAGE CAPACITY</b>												
<b>Nitrogen</b>												
SCF	5,024	5,024	4,734	4,734	8,875	10,332	10,332	10,332	24,350	24,350	35,790	35,790
Nm <sup>3</sup>	142	142	134	134	271	272	272	272	689	689	1,013	1,013
<b>Oxygen</b>												
SCF	6,244	6,244	5,930	5,930	11,124	12,760	12,760	12,760	30,070	30,070	44,220	44,220
Nm <sup>3</sup>	177	177	168	168	315	336	336	336	850	850	1,250	1,250
<b>Argon</b>												
SCF	6,073	6,073	5,763	5,763	10,812	12,478	12,478	12,478	29,400	29,400	43,220	43,220
Nm <sup>3</sup>	172	172	163	163	306	328	328	328	832	832	1,223	1,223
<b>Carbon Dioxide</b>												
SCF	N/A	N/A	4,500	4,500	8,312	N/A	8,200	8,200	19,960	19,960	29,340	29,340
Nm <sup>3</sup>	—	—	118	118	235	—	232	232	564	564	830	830
<b>THERMAL PERFORMANCE (2) (NER%/Day)</b>												
N <sub>2</sub>	1.8%	1.8%	1.8%	1.8%	1.9%	1.6%	1.6%	1.6%	1%	1%	1%	1%
O <sub>2</sub> - Ar	1.12%	1.12%	1.12%	1.12%	1.2%	1.0%	1.0%	1.0%	0.62%	0.62%	0.62%	0.62%
CO <sub>2</sub>	.6%	.6%	.6%	.6%	.6%	.5%	.5%	.5%	.3%	.3%	.3%	.3%
<b>GAS DELIVERY RATE (LOX/LIN/LAR)</b>												
SCF/H	400	400	400	400	575	575	575	575	960	960	1,350	1,350
Nm <sup>3</sup> /h	10.5	10.5	10.5	10.5	15.1	15.1	15.1	15.1	25.2	25.2	35.4	35.4
<b>GAS DELIVERY RATE (CO<sub>2</sub>)</b>												
SCF/H	N/A	N/A	133	133	192	192	192	192	320	320	450	450
Nm <sup>3</sup> /h	—	—	3.8	3.8	5.4	5.4	5.4	5.4	9.0	9.0	12.7	12.7
<b>DIMENSIONS</b>												
<b>Diameter</b>												
in	26	26	26	26	30	30	30	30	42	42	48	48
mm	660	660	660	660	762	762	762	762	1,067	1,067	1,219	1,219
<b>Height</b>												
in	54.8	52.9	54.8	52.9	68	68	68	68	81	81	91	91
mm	1,392	1,344	1,392	1,344	1,727	1,727	1,727	1,727	2,058	2,058	2,311	2,311
<b>Tare Weight</b>												
lbs	300	300	340	340	688	605	688	812	1,750	2,080	2,692	3,200
kg	136	136	154	154	312	274	312	368	794	945	1,221	1,451

All specifications are subject to change without prior notice.

1. Values are based on net capacity at 0 psig (0 bar) for ASME vessels. CO<sub>2</sub> vessels are based on net capacity at 300 psi (20.7 bar). DOT vessels are per code.

2. Values are based on gross capacity.

### For More Information

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