



Bird™ Blenders
Critical care ventilation

Bird™ Sentry 2 Blender

The quality, reliability and versatility of Bird™ Blenders have made them the blenders of choice for more than 30 years. Vyaire Medical offers a diverse line of Bird Blenders for a variety of applications, including options for NICUs and transport.

The new Bird™ Sentry 2 Blender incorporates the use of an oxygen analyzer/monitor.

The new Bird Sentry 2 features:

- High and Low Flow models—suitable for neonatal, pediatric and adult patients
- Bleed control—to minimize gas consumption
- Large, backlit LCD—providing clarity in low-light environments
- A backlit acrylic flow meter
- One touch smart alarms—sets alarms $3\% \pm$ current FiO_2 reading
- DC power port for optional external power supply
- Up to 5,000 hours of operation with four AA batteries
- The Bird Blender two-year warranty*



* Disclaimer: See operator manual for full warranty details.

Upgrade your HFOV experience—Bird Sentry 2 High Flow combined with 3100 HFOV

The combination of the Bird Sentry 2 High Flow with your 3100 HFOV is made possible by simply adding the blender bracket assembly, resulting in both oxygen administration and monitoring while adding the availability of an auxiliary flow meter.



Bird Sentry 2 High Flow



Blender bracket assembly



3100 HFOV



Bird Sentry 2 High Flow
combined with 3100 HFOV

Bird Sentry 2 Blender High Flow

Bird Sentry 2 Blender High Flow technical specifications

Part no. and gas inlets	Bird Sentry 2 High Flow, 0–70 LPM flow meter
	30623-001 (DISS)
	30623-002 (NIST)
	30623-003 (AFNOR)
Dimensions	7.25 x 4.75 x 6.5" (184 x 127 x 159 mm)
Weight	5.7 lb (2.4 kg)
FiO ₂ accuracy	± 3% O ₂
Supply pressure	30–75 PSIG/2.1–5.3 kg/cm ²
Pressure drop	< 6 PSIG (0.4 BAR) at 50 PSIG (3.4 BAR) sensor supply pressure and 10 LPM flow rate
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI
No. of ports	Three
Overall flow range	2–100 LPM with an inlet pressures at 50 PSIG (3.4 BAR)
Sensor bleed flow	0.1 LPM @ 50 PSIG (3.4 BAR)
Bleed flow (toggle on)	13–16 LPM
Power source	• 4 AA (1.5 V each) • DC power port
O ₂ concentration adjustment range	21–100% oxygen
Display resolution	0.1% oxygen



Bird Sentry 2 Blender Low Flow

Bird Sentry 2 Blender Low Flow technical specifications

Part no. and gas inlets	Bird Sentry 2 Low Flow, 0-3 LPM flow meter 30624-001 (DISS) 30624-002 (NIST) 30624-003 (AFNOR)	
	Bird Sentry 2 Low Flow, 0-30 LPM flow meter 30624-004 (DISS) 30624-005 (NIST) 30624-006 (AFNOR)	
	Dimensions	7.25 x 4.75 x 6.5" (184 x 127 x 159 mm)
	Weight	5.3 lb (2.4 kg)
	FiO ₂ accuracy	± 3% O ₂
	Supply pressure	30-75 PSIG/2.1-5.3 kg/cm ²
Pressure drop	< 6 PSIG (0.4 BAR) at 50 PSIG (3.4 BAR) sensor supply pressure and 10 LPM flow rate	
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI	
No. of ports	Three	
Overall flow range	0-30 LPM with an inlet pressures at 50 PSIG (3.4 BAR)	
Sensor bleed flow	0.1 LPM @ 50 PSIG (3.4 BAR)	
Bleed flow (toggle on)	3-5 LPM	
Power source	• 4 AA (1.5 V each) • DC power port	
O ₂ concentration adjustment range	21-100% oxygen	
Display resolution	0.1% oxygen	



Bird Sentry 2 Blender additional flow meters

The dual tapered acrylic flow meters have been designed specifically for pairing with the Bird Sentry 2 Blender portfolio. Each of the flow meters incorporates an elbow for easy fixation to the DISS outlet located on the right of each Bird Sentry 2 Blender.



Dual tapered flow meters



0-70 LPM



0-30 LPM



0-15 LPM



0-3 LPM

Bird Blender Low Flow

Perfect for air, ground and in-house transports as well as infant applications, the Bird Blender Low Flow features accurate blends at a flow range of 3–30 LPM with no gas bleed flow, or 0–30 LPM with a minimal 2.5–3.5 LPM gas bleed flow.



Bird Blender Low Flow technical specifications

Part no. and gas inlets	03920A (DISS)	10011A (NIST)
Dimensions	3.5 x 3.4 x 3.6" (89 x 86 x 91 mm)	
Weight	2.75 lb (1.25 kg)	
FiO ₂ accuracy	± 3% O ₂	
Supply pressure	30–75 PSIG/2.1–5.3 kg/cm ²	
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI	
Number of ports	Two	
Overall flow range	0–30 LPM	
Bleed flow	2.5–3.5 LPM when activated	

Bird Blender Low Flow with flow meter

This item has similar specifications as the Bird Blender Low Flow, but it includes one pressure-compensated flow meter mounted on the left-hand side.

Bird Blender Low Flow with flow meter technical specifications

Part no. and gas inlets	11322 (DISS)	11321 (NIST)
Dimensions	3.5 x 3.4 x 3.6" (89 x 86 x 91 mm)	
Weight	2.75 lb (1.25 kg)	
FiO ₂ accuracy	± 3% O ₂	
Supply pressure	30–75 PSIG/2.1–5.3 kg/cm ²	
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI	
Number of ports	One	
Overall flow range	2–16 LPM	
Bleed flow	0 LPM	



UltraBlender Low Flow

The UltraBlender has the same specifications as the Bird Blender Low Flow, but includes two pressure-compensated flow meters mounted on either side. Available in a variety of configurations, the UltraBlender is a good option for NICUs and PICUs.

UltraBlender Low Flow technical specifications

Dimensions	3.5 x 3.4 x 3.6" (89 x 86 x 91 mm)
Weight	4 lb (1.82 kg)
FiO₂ accuracy	± 3%
Supply pressure	30–75 PSIG/2.1–5.3 kg/cm ²
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI
Number of ports	Two
Overall flow range	0–30 LPM
Bleed flow	2.5–3.5 LPM when activated



Part no. and gas inlets	Left-side flow meter	Right-side flow meter
10040A (DISS) 10013A (NIST)	2.0–16 LPM, increments of 1	0.1–1.0 LPM, increments of 0.1
10041A (DISS) 10014A (NIST)	2.0–16 LPM, increments of 1	0.5–5.0 LPM, increments of 0.5
10042A (DISS)	2.0–16 LPM, increments of 1	1.0–10 LPM, increments of 1
10046A (DISS) 10016A (NIST)	2.0–16 LPM, increments of 1	2.0–16 LPM, increments of 1
10047A (DISS) 10017A (NIST)	1.0–10 LPM, increments of 1	0.1–1.0 LPM, increments of 0.1
10048A (DISS) 10018A (NIST)	0.5–5.0 LPM, increments of 0.5	1.0–10 LPM, increments of 1
10049A (DISS)	1.0–10 LPM, increments of 1	1.0–10 LPM, increments of 1

Bird Blender High Flow

The versatile Bird Blender High Flow delivers accurate FiO_2 mixtures from two outlet ports and has an overall flow range of 2–120 LPM. It is ideal when high demands of blended gas are required.



Bird Blender High Flow technical specifications

Part no. and gas inlets	03800A (DISS)	03800J (Japan–30 psi differential alarm)
	10063 (NIST)	03800G (German)
	03800B (AFNOR)	
Dimensions	3.5 x 3.4 x 3.6" (89 x 86 x 91 mm)	
Weight	2.75 lb (1.25 kg)	
FiO_2 accuracy	± 3% O_2	
Supply pressure	30–75 PSIG/2.1–5.3 kg/cm ²	
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI	
Number of ports	Two	
Overall flow range	2–120 LPM	
Bleed flow	10–12 LPM when activated	

OmniBlender


The OmniBlender is designed with multiuse in mind. Three outlet ports provide combined flows from 2–100 LPM, giving the option to have three separate items connected at once.

OmniBlender technical specifications

Part no. and gas inlets	03803T (DISS)
Dimensions	3.5 x 3.4 x 3.6" (89 x 86 x 91 mm)
Weight	3 lb (1.36 kg)
FiO_2 accuracy	± 3%
Supply pressure	30–75 PSIG/2.1–5.3 kg/cm ²
Alarm activation bypass	When supply pressures differ by 20 ± 2 PSI
Number of ports	Three
Overall flow range	2–100 LPM
Bleed flow	10–12 LPM continuous



Bird Blender accessories

Part no.	Description	
04322	Bracket, pole mount for 1" pole	
05141	Bracket, wall mount	
05213	Bracket, wall mount, female	
09440	Bracket, rail mount	
09437	Bracket, rail mount	
2688-332	Adapter, 90° elbow	
20254	Microblender air inlet connector, NIST	

Bird Blender accessories (cont'd)

Part no.	Description	
20255	Microblender oxygen inlet connector, NIST	
03837	Oxygen inlet nipple	
01468	Oxygen three-way connector, 2 male and 1 female connections	
07426	Air inlet filter/water trap	
09220	Flow meter, oxygen (0-15 LPM) includes wingnut	
32042	Adapter, oxygen DISS x 1/4" tube	
10003	Bi-annual preventative maintenance kit*	

* Used with all Bird blenders.

Bird Sentry 2 accessories

Part no.	Description
31233-001	Oxygen sensor (<i>MAX550E</i>)
31232-001	Oxygen sensor connection cable
31234-001	Power Supply (<i>international</i>), 7.5V 250mA Includes plug types A, C, G and I
26209-001	Blender bracket assembly
31733-001	90° elbow adapter (<i>long</i>) for use with Bird Sentry 2 Blender



Bird Sentry 2 accessories (cont'd)

Part no.	Description
31732-001	Dual tapered 0-70 LPM flow meter with DISS elbow adapter for use with Bird Sentry 2 Blender
31732-002	Dual tapered 0-30 LPM flow meter with DISS elbow adapter for use with Bird Sentry 2 Blender
31732-003	Dual tapered 0-15 LPM flow meter with DISS elbow adapter for use with Bird Sentry 2 Blender
31732-004	Dual tapered 0-3 LPM flow meter with DISS elbow adapter for use with Bird Sentry 2 Blender





Air and oxygen hose options

Part no.	Oxygen	Air	Male DISS	Female DISS	Male NIST	Female NIST	Probe NIST	Length (feet)	Color	Comments
02899		•		2				15'	Yellow	U.S. standard
00060	•		1	1				15'	Green	U.S. standard
03867		•		2				3'	Yellow	Miscellaneous
03868	•		1	1				3'	Green	Miscellaneous
09520	•			2				2'	Green	Miscellaneous
09448	•			2				3'	Green	Miscellaneous
10239		•		2				15'	Black	European with DISS
10240	•		1	1				15'	White	European with DISS
10244	•					2		15'	White	European with NIST
10245		•				2		15'	Black	European with NIST

For more information, please contact your local Vyair representative.

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