



THE NEW CHOICE IN CENTRIFUGATION

Available in North and Latin America through NuAire





Quality and dependability for the future.

For over 40 years, NuAire, Inc. has provided the life science and medical research communities with valued products that are highly dependable, effective, and efficient. We have now teamed up with Awel International, from France, to bring you an innovative and exciting line of benchtop centrifuges. Awel centrifuges are positioned as the alternative for your laboratories in research, clinical and transfusion applications. Their design, targeted towards ergonomics, encourages safety and convenience. Awel centrifuges offer mono and multi-functional, refrigerated and non-refrigerated models. Technical innovations optimize productivity in your laboratory work to improve results, save time, while providing a greater relative centrifugal force (RFC).

The perfect fit for your laboratory.

Awel centrifuges complement NuAire's line of Biological Safety Cabinets, CO₂ Incubators, Laminar Airflow Workstations, Ultra-low Temperature Freezers, and more as the ultimate collection for your laboratory. NuAire prides itself on providing quality, long-lasting equipment focused on your safety and research. Our world class service will ensure you, your laboratory, and your research are taken care throughout the life of NuAire products.

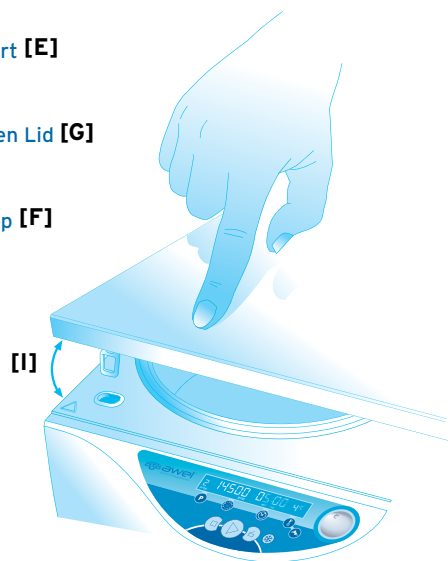
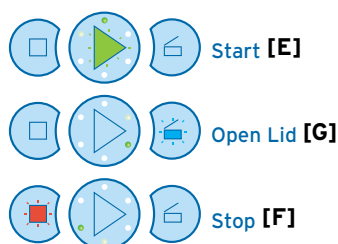


Intuitive operation.

The Awel centrifuge control center **[A]** has been simplified for high user adoption. Identifiable buttons allow technicians to program the unit with ease up to 10 programs. Parameters are easily set **[B]** by pushing a button for speed by rpm or RFC and radius, time, and if available, temperature, precool function, acceleration and braking all by turning a rotary dial to your desired set point. A bright backlit LED screen is easy to read in sunlight or dark laboratories. The screen turns different colors **[C]** to alert the user when the system can be programmed, is

locked, or an alarm has occurred. Illuminated buttons below the LED screen **[D]** allow investigators to start **[E]** and stop **[F]** the unit, or open the motorized lid **[G]**. Illumination only occurs when available. Small rotating diodes around the start button indicate the centrifugation stage.

Awel centrifuges are fitted with a powered locking/unlocking motorized lid **[I]** to provide maximum user safety without using unnecessary force to open and close the lid.

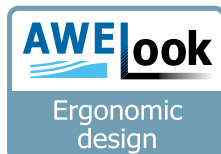


AWELight

End of run indication

The illuminated handle lights up to indicate the possibility of unloading the tubes, optimizing the frequency of centrifugation runs and quality of the analyses.

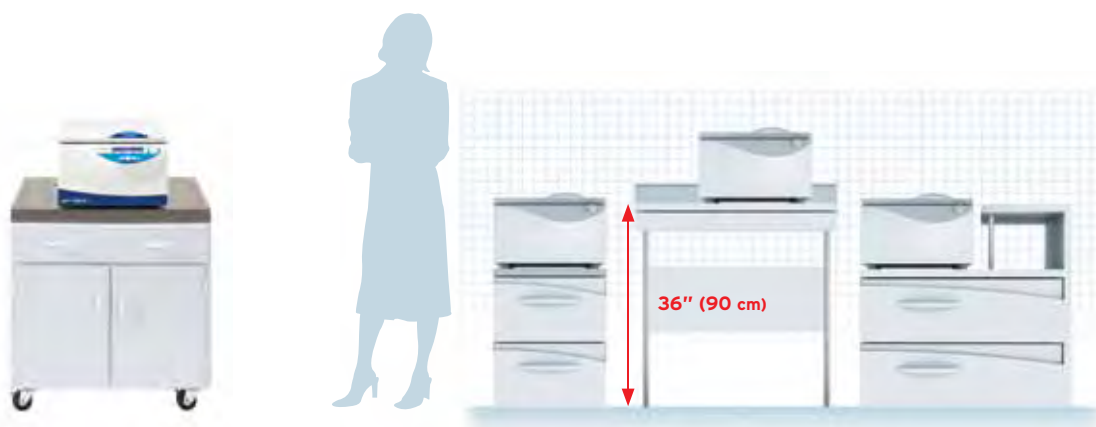




AWElook

Ergonomic design

Awel centrifuges place the samples at a convenient working height, whatever the chosen configuration. Placed on the bench, the Awel centrifuges offer the advantage of perfect visibility when loading or unloading samples, because of their reduced height.



AWElock

Rotor exchange without tools

Multifunction centrifuges are immediately operational with the patented AWElock system of rapid exchange of rotating accessories without using tools.



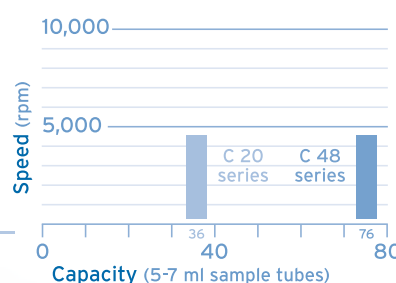
To remove rotor, push tabs together to release locking mechanism. To replace, arrange rotor arrows with rotor shaft opening and push down. An audible "click" will sound and tabs will project out displaying green dots signifying your rotor is ready for operation.





Classical Centrifuges

An excellent capacity/space ratio; these centrifuges easily find their place in your laboratory for intensive, routine use.



Specification	C 48	C 48-R	C 20	C 20-R
Max. speed:	Swing-out rotor 4500 rpm Angle rotor 4400 rpm	4500 rpm 4400 rpm	4400 rpm 4400 rpm	4400 rpm 4400 rpm
Max. RCF:	Swing-out rotor 3820 xg Angle rotor 3030 xg	3820 xg 3030 xg	3500 xg 3030 xg	3500 xg 3030 xg
Max. capacity:	Swing-out rotor 4 x 400 ml Angle rotor 32 x 15 ml	4 x 400 ml 32 x 15 ml	4 x 200 ml 32 x 15 ml	4 x 200 ml 32 x 15 ml
Control system	Microprocessor			
Speed range	500 to 4500 rpm			
Speed precision	20 rpm			
Temperature range	N/A	-20°C to +60°C	N/A	-20°C to +60°C
Timer	0 - 99h50 and Continuous			
Acceleration/braking rates	10 / 10			
Programs	10			
Lid opening	Motorized			
Motor type	Induction			
Certification	UL, UL-C EC Marked: IEC 1010-1; IEC 1010-2-020 Directives			
Dimensions (H x W x D)	280 x 420 x 520 mm 11 x 16½ x 20½ in	280 x 420 x 750 mm 11 x 16½ x 29½ in	280 x 420 x 520 mm 11 x 16½ x 20½ in	280 x 420 x 750 mm 11 x 16½ x 29½ in
Crating (H x W x D)	460 x 610 x 650 mm 18 x 24 x 25½ in	460 x 610 x 890 mm 18 x 24 x 35 in	460 x 610 x 650 mm 18 x 24 x 25½ in	460 x 610 x 890 mm 18 x 24 x 35 in
Weight (net/crated)	50 / 56 kg 110 / 154 lbs	70 / 79 kg 154 / 174 lbs	50 / 56 kg 110 / 154 lbs	70 / 79 kg 154 / 174 lbs

C 48 Series Accessories

Option No. Rotors

AW-R-048-SO	SO-400 Swing-out rotor, 4x400 ml, without buckets
AW-R-048-CA	A48-32.15 Fixed-angle rotor 32x15 ml tubes

Option No. Buckets

AW-B-048-RB	N-400-S Round bucket for SO-400 and SL-400 rotor (set of 4)
AW-L-048-RB	BL-400-S Lid w/bio-containment for N-400 round buckets (set of 4)

Option No. Inserts

AW-I-048-02	I400-2 Insert for 13 microtubes 1.5-2 ml for N-400 (set of 4)
AW-I-048-5C	I400-5-7 Insert for 14 collection tubes 5-7 ml for N-400 (set of 4)
AW-I-048-5B	I400-5-7 BD Insert for 15 BD collection tubes 5-7 ml for N-400 (set of 4)
AW-I-048-5T	I400-5-7 Terumo insert for 19 Terumo collection tubes 5-7 ml for N-400 (set of 4)
AW-I-048-10	I400-10 Insert for 12 collection tubes 10 ml for N-400 (set of 4)
AW-I-048-15	I400-15 Insert for 7x15 ml conical tubes for N-400 (set of 4)
AW-I-048-20	I400-20 Insert for 5x20 ml round bottom/Z10 tubes (set of 4)
AW-I-048-22	I400-U Insert for 8 tubes diameter 22 mm
AW-I-048-53	I400-50 Insert for 3x50 ml conical tubes for N-400 (set of 4)
AW-I-048-54	I400-50B Insert for 4x50 ml conical tubes BD branded for unsealed N-400 (set of 4)
AW-I-048-2X	I400-250 Insert for 250 ml tube (set of 4)
AW-I-048-4X	I400-400 Insert for 400 ml tube (set of 4)

C 20 Series Accessories

Option No. Rotors

AW-R-020-SO	SO-200 Swing-out rotor for C 20, C 20-R 4x200 ml, w/out buckets
AW-R-020-CA	A20-32.15 Fixed-angle rotor 32x15 ml tubes

Option No. Buckets

AW-B-020-RB	N-200 Round bucket for SO-200 and SL-200 rotor (set of 4)
AW-L-016-RB	BL-125 Lid with bio-containment for N-125 buckets (set of 4)

Option No. Inserts

AW-I-020-02	I200-2 Insert for 7 microtubes 1.5-2 ml for N-200 (set of 4)
AW-I-020-5C	I200-5-7 Insert for 6 collection tubes 5-7 ml for N-200 (set of 4)
AW-I-020-5B	I200-5-7 BD Insert for 7 BD & Greiner collection tubes 5-7 ml for N-200 (set of 4)
AW-I-020-5T	I200-5-7 Terumo Insert for 9 Terumo collection tubes 5-7 ml for N-200 (set of 4)
AW-I-020-5P	I200-5 Insert for 12 open tubes 5 ml for N-200 (set of 4)
AW-I-020-10	I200-10 Insert for 6 collection tubes 10 ml for N-200 (set of 4)
AW-I-020-11	I200-10 BD Insert for 7 BD collection tubes 10 ml for N-200 (set of 4)
AW-I-020-15	I200-15 Insert for 3x15 ml conical tubes for N-200 (set of 4)
AW-I-020-22	I200-U Insert for 4 conical tubes diameter 22 mm
AW-I-020-50	I200-50 Insert for 1x50 ml conical tubes for N-200 (set of 4)

Centrifuge Stands

Option No. Stands

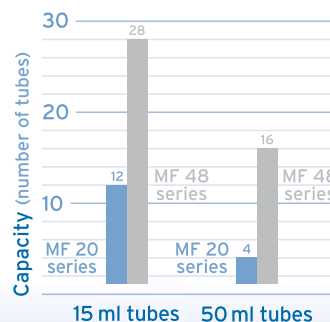
AW-S-000-SM	Ergonomic storage support stand, two drawers, 420x720 mm
AW-S-000-LA	Large ergonomic storage support stand, two drawers, 690x720 mm
AW-S-000-SH	Optional shelf for large ergonomic support stand M690-2





Multifunction Centrifuges

The MF series offers a variety of speeds and separations that adapt to all types of applications. A large choice of accessories, combined with the AWElock system, respond to the different needs and centrifugation protocols of your laboratory.



Specification	MF 48	MF 48-R	MF 20	MF 20-R
Max. speed:	Swing-out rotor 4500 rpm Angle rotor 12600 rpm	Swing-out rotor 4500 rpm Angle rotor 14000 rpm	Swing-out rotor 4400 rpm Angle rotor 12600 rpm	Swing-out rotor 4400 rpm Angle rotor 14000 rpm
Max. RCF:	Swing-out rotor 3820 xg Angle rotor 17000 xg	Swing-out rotor 3820 xg Angle rotor 21000 xg	Swing-out rotor 3500 xg Angle rotor 17000 xg	Swing-out rotor 3500 xg Angle rotor 21000 xg
Max. capacity:	Swing-out rotor 4 x 400 ml Angle rotor 6 x 100 ml	Swing-out rotor 4 x 400 ml Angle rotor 6 x 100 ml	Swing-out rotor 4 x 200 ml Angle rotor 8 x 50 ml	Swing-out rotor 4 x 200 ml Angle rotor 8 x 50 ml
Control system	Microprocessor			
Speed range	500 to 14000 rpm			
Speed precision	20 rpm			
Temperature range	N/A	-20°C to +60°C	N/A	-20°C to +60°C
Timer	0 - 99h50 and Continuous			
Acceleration / braking rates	10 / 10			
Programs	10			
Lid opening	Motorized			
Motor type	Induction			
Certification	UL, UL-C EC Marked : IEC 1010-1 ; IEC 1010-2-020 Directives			
Dimensions (H x W x D)	280 x 420 x 520 mm 11 x 16½ x 20½ in	280 x 420 x 750 mm 11 x 16½ x 29½ in	280 x 420 x 520 mm 11 x 16½ x 20½ in	280 x 420 x 750 mm 11 x 16½ x 29½ in
Crating (H x W x D)	460 x 610 x 650 mm 18 x 24 x 25½ in	460 x 610 x 890 mm 18 x 24 x 35 in	460 x 610 x 650 mm 18 x 24 x 25½ in	460 x 610 x 890 mm 18 x 24 x 35 in
Weight (net/crated)	50 / 56 kg 110 / 154 lbs	70 / 79 kg 154 / 174 lbs	50 / 56 kg 110 / 154 lbs	70 / 79 kg 154 / 174 lbs

MF 48 Series Accessories

Option No. Rotors

AW-R-048-SL	SL-400 Swing-out rotor, AWE Lock, 4x400 ml, w/out bucket
AW-R-048-MP	SL48-MTP Swing-out rotor for 6 microplates w/AWE Lock, w/out buckets
AW-R-048-MA	AMF48-32.15 Fixed angle rotor for 32x15 ml tubes, AWE Lock
AW-R-048-24	AMF48-24 Sealed angle rotor for 24x1.5/2.0 ml microtubes, AWE Lock
AW-R-048-30	AMF48-30 Sealed angle rotor for 30x1.5/2.0 ml microtubes, AWE Lock
AW-R-048-48	AMF48-PCR Fixed angle rotor for 6x8 PCR tubes stripes, AWE Lock
AW-R-048-10	AMF48-10 Fixed angle rotor for 10x10 ml round tubes, AWE Lock
AW-R-048-08	AMF48-8 Fixed angle rotor for 8x50 ml conical tubes, AWE Lock
AW-R-048-06	AMF48-6 Fixed angle rotor for 6x100 ml tubes, AWE Lock

Option No. Buckets

AW-B-048-RB	N-400-S Round bucket for SO-400 and SL-400 rotor (set of 4)
AW-L-048-RB	BL-400-S Lid w/bio-containment for N-400 round buckets (set of 4)
AW-B-034-MP	Buckets for 2x3 microplates/2 deep well blocks (set of 2)

Option No. Inserts

AW-I-048-02	I400-2 Insert for 13 microtubes 1.5/2 ml for N-400 (set of 4)
AW-I-048-5C	I400-5-7 Insert for 14 collection tubes 5-7 ml for N-400 (set of 4)
AW-I-048-5B	I400-5-7 BD Insert for 15 BD collection tubes 5-7 ml for N-400 (set of 4)
AW-I-048-5T	I400-5-7 Terumo Insert for 19 Terumo collection tubes 5-7 ml for N-400 (set of 4)
AW-I-048-10	I400-10 Insert for 12 collection tubes 10 ml for N-400 (set of 4)
AW-I-048-15	I400-15 Insert for 7x15 ml conical tubes for N-400 (set of 4)
AW-I-048-20	I400-20 Insert for 5x20 ml round bottom / Z10 tubes (set of 4)
AW-I-048-22	I400-U Insert for 8 tubes diameter 22 mm
AW-I-048-53	I400-50 Insert for 3x50 ml conical tubes for N-400 (set of 4)
AW-I-048-54	I400-50B Insert for 4x50 ml conical tubes BD branded for unsealed N-400 (set of 4)
AW-I-048-2X	I400-250 Insert for 250 ml tube (set of 4)
AW-I-048-4X	I400-400 Insert for 400 ml tube (set of 4)

Option No. Adaptors

AW-A-034-15	Adaptors for 15ml conical in 8x50 ml angle rotor (set of 8)
AW-A-034-CU	Cushion for 50ml round bottom tube in 8x50 ml rotor (set of 8)
AW-A-034-P6	Adaptors for dia. 6 mm PCR tubes in microtube rotor (set of 12)
AW-A-034-P8	Adaptors for dia. 8 mm PCR tubes in microtube rotor (set of 12)

MF 20 Series Accessories

Option No. Rotors

AW-R-020-SL	SL-200 Swing-out rotor, AWE Lock, 4x200 ml, w/out bucket
AW-R-020-MA	AMF20-32.15 Fixed angle rotor for 32x15 ml tubes, AWE Lock
AW-R-020-24	AMF20-24 Sealed angle rotor for 24x1.5/2.0 ml microtubes, AWE Lock
AW-R-020-30	AMF20-30 Sealed angle rotor for 30x1.5/2.0 ml microtubes, AWE Lock
AW-R-020-10	AMF20-10 Fixed angle rotor for 10x10 ml round tubes, AWE Lock
AW-R-020-08	AMF20-8 Fixed angle rotor for 8x50 ml round/conical tubes, AWE Lock

Option No. Buckets

AW-B-020-RB	N-200 Round bucket for SO-200 and SL-200 rotor (set of 4)
AW-L-016-RB	BL-125 Lid with bio-containment for N-125 buckets (set of 4)
AW-B-034-MP	Buckets for 2x3 microplates/2 deep well blocks (set of 2)

Option No. Inserts

AW-I-020-02	I200-2 Insert for 7 microtubes 1.5/2 ml for N-200 (set of 4)
AW-I-020-5C	I200-5-7 Insert for 6 collection tubes 5-7 ml for N-200 (set of 4)
AW-I-020-5B	I200-5-7 BD Insert for 7 BD & Greiner collection tubes 5-7 ml for N-200 (set of 4)
AW-I-020-5T	I200-5-7 Terumo insert for 9 Terumo collection tubes 5-7 ml for N-200 (set of 4)
AW-I-020-5P	I200-5 Insert for 12 open tubes 5 ml for N-200 (set of 4)
AW-I-020-10	I200-10 Insert for 6 collection tubes 10 ml for N-200 (set of 4)
AW-I-020-11	I200-10 BD Insert for 7 BD collection tubes 10 ml for N-200 (set of 4)
AW-I-020-15	I200-15 Insert for 3x15 ml conical tubes for N-200 (set of 4)
AW-I-020-22	I200-U Insert for 4 conical tubes diameter 22 mm
AW-I-020-50	I200-50 Insert for 1x50 ml conical tubes for N-200 (set of 4)

Option No. Adaptors

AW-A-034-15	Adaptors for 15 ml conical in 8x50 ml angle rotor (set of 8)
AW-A-034-CU	Cushion for 50 ml round bottom tube in 8x50 ml rotor (set of 8)
AW-A-034-P6	Adaptors for dia. 6 mm PCR tubes in microtube rotor (set of 12)
AW-A-034-P8	Adaptors for dia. 8 mm PCR tubes in microtube rotor (set of 12)

Centrifuge Stands

Option No. Stands

AW-S-000-SM	Ergonomic storage support stand, two drawers, 420x720 mm
AW-S-000-LA	Large ergonomic storage support stand, two drawers, 690x720 mm
AW-S-000-SH	Optional shelf for large ergonomic support stand M690-2



Classic Centrifuges

Operational immediately

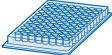


		C 20		C 20-R		C 48		C 48-R	
SWING-OUT ROTOR	TUBE								
	Collection Tube (5-7 ml)	36	4400 rpm	36	4400 rpm	60	4500 rpm	60	4500 rpm
			3413 xg		3413 xg		3649 xg		3649 xg
	Collection Tube (10 ml)	24	4400 rpm	24	4400 rpm	48	4500 rpm	48	4500 rpm
			3413 xg		3413 xg		3649 xg		3649 xg
	Conical Bottom (15 ml)	12	4400 rpm	12	4400 rpm	28	4500 rpm	28	4500 rpm
			3500 xg		3500 xg		3763 xg		3763 xg
	Conical Bottom (50 ml)	4	4400 rpm	4	4400 rpm	16	4500 rpm	16	4500 rpm
			3435 xg		3435 xg		3808 xg		3808 xg
ANGLE ROTOR	TUBE								
	Microtubes (1.5-2 ml)	-	-	-	-	-	-	-	-
			-		-		-		-
	Microtubes (1.5-2 ml)	-	-	-	-	-	-	-	-
			-		-		-		-
	Round Bottom (10 ml)	-	-	-	-	-	-	-	-
			-		-		-		-
	Conical Bottom (50 & 15 ml)	-	-	-	-	-	-	-	-
			-		-		-		-
	Round Bottom (100 ml)	-	-	-	-	-	-	-	-
			-		-		-		-
	Collection Tube (15 ml)	32	4400 rpm	32	4400 rpm	32	4400 rpm	32	4400 rpm
			3030 xg		3030 xg		3030 xg		3030 xg
MICROPLATES ROTOR	MICROPLATES								
	96 Well Plate	-	-	-	-	-	-	-	-
			-		-		-		-
	Cell Culture Plate	-	-	-	-	-	-	-	-
			-		-		-		-
	Deep Well	-	-	-	-	-	-	-	-
			-		-		-		-

Multifunction Centrifuges

Versatility for all your applications



			MF 20		MF 20-R		MF 48		MF 48-R	
SWING-OUT ROTOR			TUBE							
		Collection Tube (5-7 ml)	36	4400 rpm	36	4400 rpm	60	4500 rpm	60	4500 rpm
				3413 xg		3413 xg		3649 xg		3649 xg
		Collection Tube (10 ml)	24	4400 rpm	24	4400 rpm	48	4500 rpm	48	4500 rpm
				3413 xg		3413 xg		3649 xg		3649 xg
		Conical Bottom (15 ml)	12	4400 rpm	12	4400 rpm	28	4500 rpm	28	4500 rpm
				3500 xg		3500 xg		3763 xg		3763 xg
		Conical Bottom (50 ml)	4	4400 rpm	4	4400 rpm	16	4500 rpm	16	4500 rpm
				3435 xg		3435 xg		3808 xg		3808 xg
ANGLE ROTOR			TUBE							
		Microtubes (1.5 - 2 ml)	24	12600 rpm	24	14000 rpm	24	12600 rpm	24	14000 rpm
				17000 xg		21000 xg		17000 xg		21000 xg
		Microtubes (1.5 - 2 ml)	30	12500 rpm	30	12500 rpm	30	12500 rpm	30	12500 rpm
				17990 xg		17990 xg		17990 xg		17990 xg
		Round Bottom (10 ml)	10	12600 rpm	10	13000 rpm	10	12600 rpm	10	13000 rpm
				17000 xg		18130 xg		17000 xg		18130 xg
		Conical Bottom (50 & 15 ml)	8	10500 rpm	8	11300 rpm	8	10500 rpm	8	11300 rpm
				12900 xg		15000 xg		12900 xg		15000 xg
		Round Bottom (100 ml)	-	-	-	-	6	10500 rpm	6	11300 rpm
				-		-		12900 xg		15000 xg
		Collection Tube (15 ml)	32	4400 rpm	32	4400 rpm	32	4400 rpm	32	4400 rpm
				3030 xg		3030 xg		3030 xg		3030 xg
MICROPLATES ROTOR			MICROPLATES							
		96 Well Plate	6	4100 rpm	6	4100 rpm	6	4100 rpm	6	4100 rpm
				2380 xg		2380 xg		2380 xg		2380 xg
		Cell Culture Plate	6	4100 rpm	6	4100 rpm	6	4100 rpm	6	4100 rpm
				2380 xg		2380 xg		2380 xg		2380 xg
		Deep Well	2	4100 rpm	2	4100 rpm	2	4100 rpm	2	4100 rpm
				2380 xg		2380 xg		2380 xg		2380 xg



For more information please visit
www.nuaire.com or call **1.800.328.3352**

