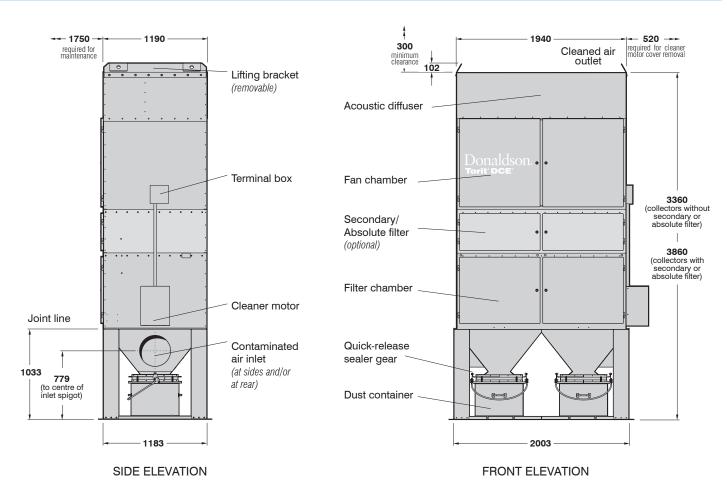


Unimaster Dust Collectors

Series UMA 750



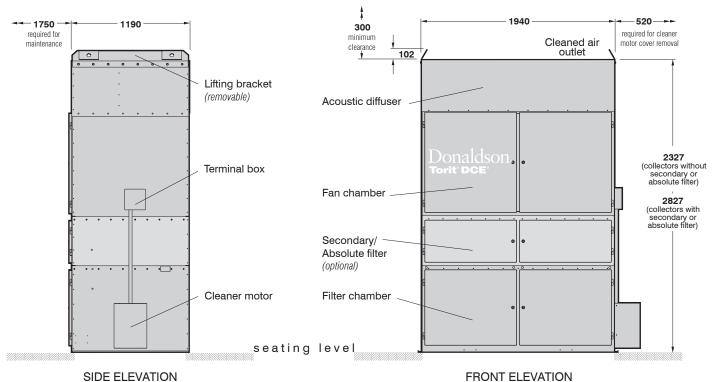
UNIMASTER DUST COLLECTOR WITH DUST CONTAINER

Suitable for inside locations

		OFL	CIFICATIONS			
Туре	Filtration area	Inlet spigot (inside dia.)	Fan	Motor rating	Dust container (x2)	Net weight (approx.)
			KV15	11.0 kW		1185 kg*
UMA 756	70 m²	Ø 355 mm	KV18	15.0 kW	80 litre	1200 kg*
			KV21	18.5 kW		1305 kg*



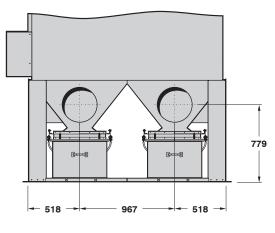




UNIMASTER HOPPER TYPE DUST COLLECTOR

Suitable for inside locations

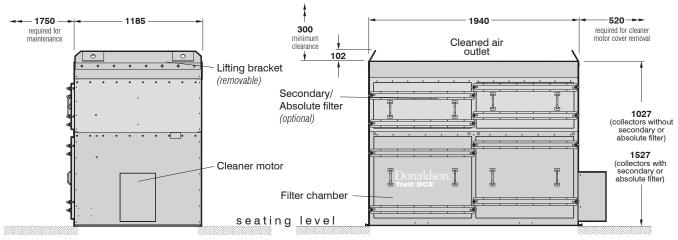
	SPE	CIFICATIONS		
Туре	Filtration area	Fan	Motor rating	Net weight (approx.)
		KV15	11.0 kW	1000 kg*
UMA 750H	70 m ²	KV18	15.0 kW	1015 kg*
		KV21	18.5 kW	1120 kg*



REAR ELEVATION

POSITION OF REAR CONTAMINATED AIR INLETS



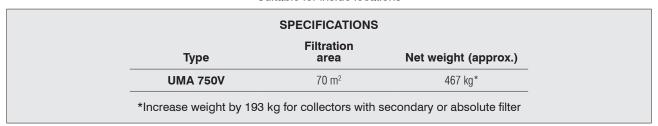


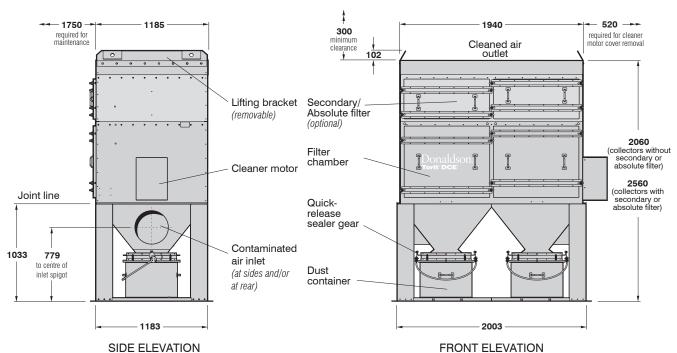
SIDE ELEVATION

FRONT ELEVATION

UNIMASTER VENTING TYPE DUST COLLECTOR

Suitable for inside locations



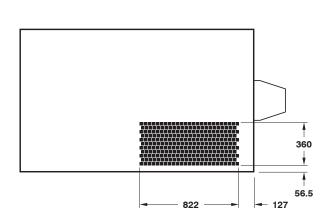


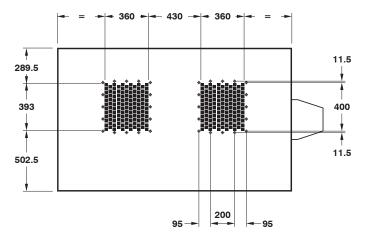
UNIMASTER VENTING TYPE DUST COLLECTOR WITH DUST CONTAINERS

Suitable for inside locations

	Filtration	Inlet eniget	Dust container	Not woigh
Туре	area	Inlet spigot (inside dia.)	(x2)	Net weigh (approx.)
UMA 756V	70 m²	Ø 355 mm	80 litre	652 kg*





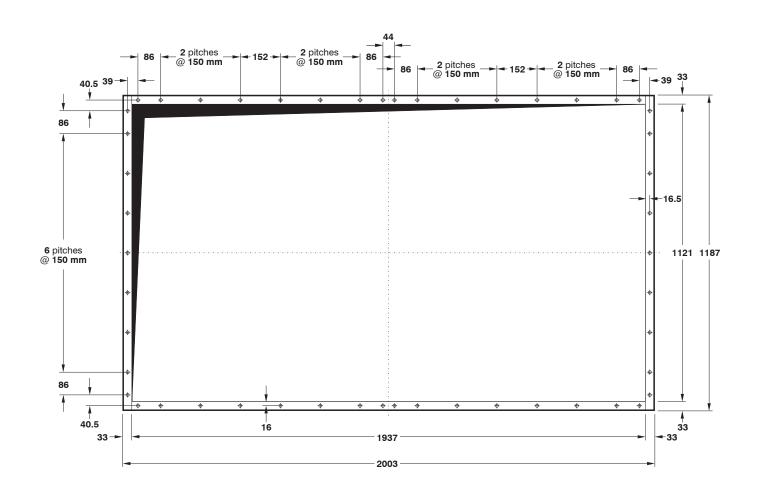


Standard and Hopper type collectors

Venting type collectors

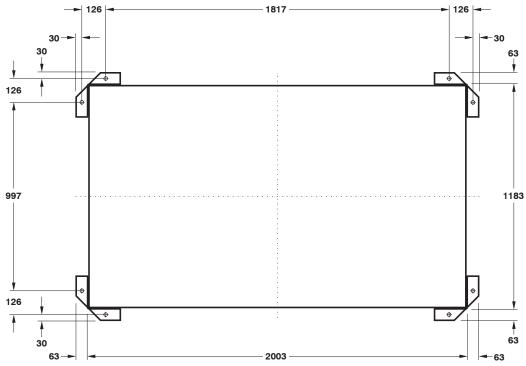
All holes Ø 3.5 mm. Pitch centres: 100 mm.

CLEANED AIR OUTLET DETAILS



APERTURE AND MOUNTING FLANGE DETAILS FOR HOPPER AND VENTING TYPE COLLECTORS
All holes Ø12 mm for M10 bolts





FOUNDATION DETAILS FOR COLLECTORS WITH DUST CONTAINERS

All holes Ø20 mm for suitable fixings (minimum M10)

NOISE LEVELS

Machinery noise levels are an important consideration in the design and selection of new equipment. Several EC Directives and National Laws/Regulations adopting these directives make reference to airborne noise emissions. Actions that employers are required to comply with if employees are subjected to a daily personal noise exposure Lep,d of 85 dB(A) or more are also specified.

All Unimaster dust collectors, when fitted with an acoustic diffuser, secondary filter or absolute filter, operating an 8 hour shift, are below this action limit.

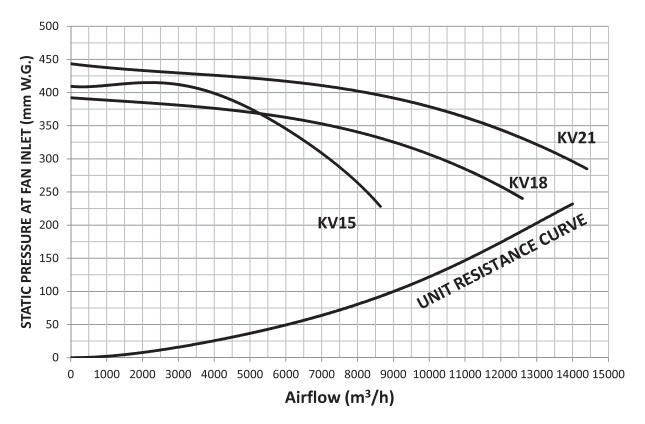
WEIGHTED SOUND PRESSURE LEVELS

All readings were taken in normal industrial areas, i.e. semi-reverberant surroundings, with local equipment silent. Measurements were taken at maximum air flow conditions at 1.0 metre radius from the equipment housing and 1.6 metres above base level, using a precision sound level meter and octave filter.

KV15	KV18	KV21
77 dB(A)*	79 dB(A)	80 dB(A)

Noise levels of installed equipment may vary due to site conditions. *Estimated data.





UNIT PERFORMANCE CURVES

FAN SELECTION

These curves indicate static pressure available at fan inlet for a given volume when fitted inside a Unimaster dust collector.

To select the most suitable fan for a given application:

- 1 Determine the air volume, in m³/h, needed to entrain the dust.
- 2 Read off the unit resistance, in mm W.G., at air volume required.
- 3 Assess pressure drop over filter bags prior to cleaning, usually 50 to 100 mm W.G.
- 4 Estimate pressure drop through connected system i.e. between point of entrainment and collector inlet.
- 5 The sum of 2, 3 and 4 = W.G. required.
- 6 Consult graph for fan performances available.

	DUS	T CONTAINER				
		Typical dust densities				
	Size	Approx. net weight	Dust	Density with 50% voidage		
80 litre	80 litre	6 kg	Sander Graphite Sand Iron Steel	0.13 kg/litre 0.80 kg/litre 1.33 kg/litre 3.58 kg/litre 3.72 kg/litre		
(3 cu.ft.)		ble total load for and would be 25 kg				

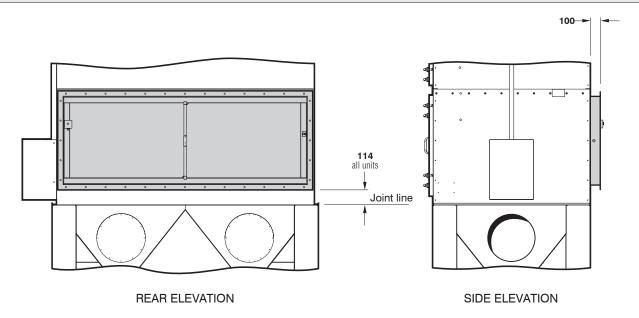


ELECTRICAL REQUIREMENTS

UCS Controller

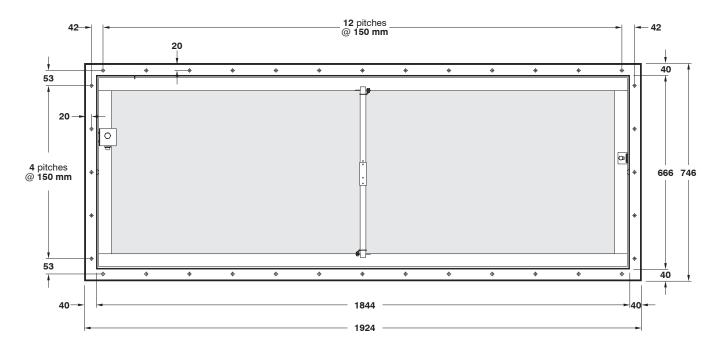
Voltage input: 380-420V, Three Phase, 50Hz

440-480V, Three Phase, 60Hz or to suit local voltage



POSITION OF OPTIONAL EXPLOSION RELIEF FLANGE

If a vent duct is not connected to the explosion relief flange, then a minimum clearance of 500 mm should be made to the rear of the collector to ensure efficient operation of the explosion venting process. Consideration should be given to the local surrounding area in regards to the pressure and flame effects.



OPTIONAL EXPLOSION RELIEF FLANGE MOUNTING DETAILS

All holes Ø10 mm for M8 bolts



DESIGN LIMITS (standard equipment)

Temperature range: -10° to $+60^{\circ}$ C

Pressure limits: Collecters with fan: As fan performance curves from shut-off to operating pressure

Venting type collectors: -300 mm W.G. to +250 mm W.G.

Dimension tolerances: ± 3 mm on main dimensions; ± 2 mm on detail dimensions



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