# Galaxy<sup>TM</sup> Roof Mounting Direct Driven Twin Fans (GRD)

#### Features & Benefits

- Direct Drive Twin Fan (Run & standby)
- Backward curved centrifugal impellors
- Operating temperatures up to 40°C
- Performance range up to 2.72m³/s
- Static Pressure Development up to 500pa
- Speed controllable
- Quality assured to BS EN ISO 9001
- Performance listed to BS 848 Part 1

The GRD Galaxy Roof Mounting, Direct Driven, Twin fan range represents the latest development from Vent-Axia in high performance, run and standby twin fans. Designed to be controlled in-conjunction with Vent-Axia Trakmaster twin fan controller range, the total package offers the end user flexibility when interfaced with or without a (BMS) Building Management Systems, such as: manual selection; 12/24hr auto changeover ensuring the extended life of the fan and motor; night setback during low levels of occupancy for energy management control during 24hr extraction.

The unit casing is manufactured from mill finished aluminium fitted with a discharge aluminium weather louvre with bird mesh as standard, ensuring suitability for exposed external environments. Assembly is controlled to BS EN ISO 9001. Optional acoustic lined casing is available.

Individual gravity return shutters are fitted as standard to prevent air re-circulation through the standby fan or the system during shut down periods. The Galaxy Roof Twin Fans are suitable for horizontal mounting. When installed on a shallow pitch roof (max 20°) a special upstand will be needed to compensate for the angular difference – manufactured by others.

To meet COSHH requirements, double pole service isolator switches are fitted and pre-wired to the fans and mounted to the outer casing to reduce installation time and cost. Access to the fan section is via an easily removed top access panel for cleaning and maintenance during shut down periods.



Top view with access panel removed

The Galaxy range has ten models with extract performance ranging from 0.056m³/s up to 1.339m³/s (201m³/h to 4820m³/h), with pressure characteristics of up to 400Pa. All models are supplied with inlet spigots on the underside of the unit casing and a discharge anodised aluminium weather louvre.

#### Motor/Impellers

Galaxy features motors and DIDW forward curved centrifugal impeller assembly specifically chosen for performance. The assembly is dynamically balanced to ISO 1940 Grade G.6.3. Ball bearings are greased for life. Insulation is Class 'B' (from - 15°C to + 40°C).

### Electrical

All Motors are single phase 220-240V/ 50Hz. The isolator is supplied with all models with PG11 entry protected against dust and water jets from any angle for external use. All motors are fitted with Standard Thermal Overload Protection (S.T.O.P.) motor protection by means of a thermal contact switch incorporated in the windings to prevent motor damage by overloading/overheating.

#### Performance

GRD fan performance is tested in accordance with Test BS 848 Part 1.

#### Sound Levels

Sound levels are measured in a reverberant chamber in accordance with BS 848 Part 2. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2 x 10<sup>-5</sup>Pa (20 micro-Pascal). The inlet and outlet sound power level spectra figures are dB with a reference of 10<sup>-12</sup> Watts (1 pico-watt). To ensure minimum noise levels during speed control, an auto transformer speed control is recommended.

#### **Quality Assurance**

Design and manufacture are in accordance with the standard for quality management system BS EN ISO 9001.

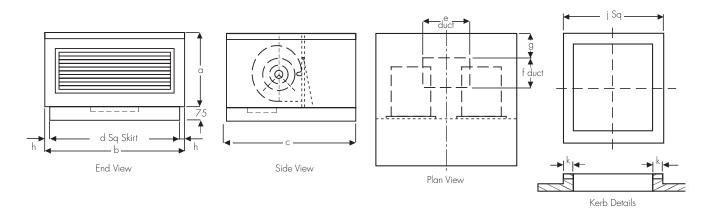
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Twin Fans

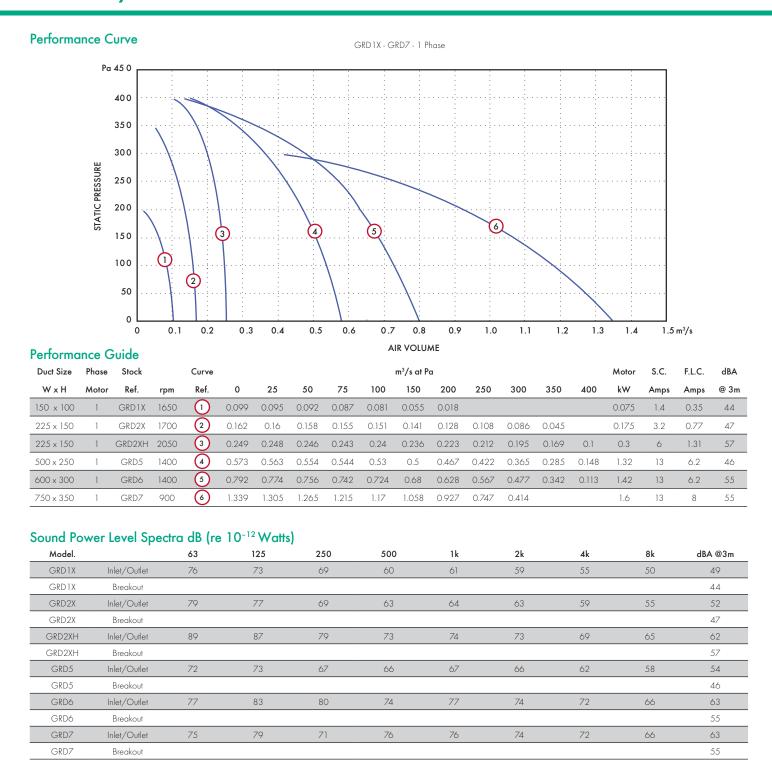


## Fan Dimensions (mm)



Unit	а	Ь	С	q	е	f	9	h	i	k	Weight Kg
GRD1X	250	670	500	500	150	100	150	85	490	<i>7</i> 5	11
GRD2X	340	750	700	700	225	150	150	25	690	<i>7</i> 5	22
GRD2XH	340	750	700	700	225	150	150	25	690	<i>7</i> 5	22
GRD5	550	1000	950	950	500	250	150	25	940	<i>7</i> 5	55
GRD6	550	1050	1050	1050	600	300	150	-	1040	<i>7</i> 5	61
GRD7	650	1250	1150	1150	<i>7</i> 50	350	150	50	1140	<i>7</i> 5	65

# Galaxy<sup>TM</sup> In-Line Direct Driven Twin Fans (GRD)



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#### Accessories







Standard	Insulated	eDemand	*eDemand Controller
Unit	Unit	Auto Changeover	Voltage Control
Stock Ref. No.	Stock Ref. No	Stock Ref.	Stock Ref.
GRD1X	GRDIIX	444180	444164
GRD2X	GRDI2X	444180	444164
GRD2XH	GRDI2XH	444180	444164
GRD5	GRDI5	444180	444165
GRD6	GRDI6	444180	444165
GRD7	GRDI7	444180	444165









	**ITC Man./Auto	**ITC-DS 12/24hr Auto	RVC ELV Remote	RSC Remote
	Changeover Controller	Changeover Controller	Visual Controller	Setback Controller
Model Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.
GRD1	10314200	10314210	10314220	10314230
GRD2X	10314200	10314210	10314220	10314230
GRD2XH	10314200	10314210	10314220	10314230
GRD5	10314200	10314210	10314220	10314230
GRD6	10314200	10314210	10314220	10314230
GRD7	10314200	10314210	10314220	10314230







		Flexible	Duct Attenuator		
	Auto Transformer	Connection	600mm	900mm	1200mm
Model Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.	Stock Ref.
GRD1	10314103	GRD1FC	10535150	10536150	
GRD2X/GRD2XH	10314103	GRD2FC	10535250	10536250	10537250
GRD5	10314107	GRD5FC	GRS5-600	GRS5-900	GRS5-1200
GRD6	10314107	GRD6FC	-	GRS6-900	GRS6-1200
GRD7	10314113	GRD7FC		GRS7-900	GRS7-1200

<sup>\*</sup> For full range of speed controller options, see Accessories & Controllers Section

NOTE: For end Inlet please add E1 to the end of the Stock Ref. number

NOTE: Inlet silencers shown for GRD1X to GRD3 are circular due to the small inlet sizes - a transformation piece will be required - supplied by others

 $<sup>{}^{\</sup>star\star} \text{Not suitable for use with eDemand controllers. For compatible changeover panel, see Accessories and Controllers Section}$