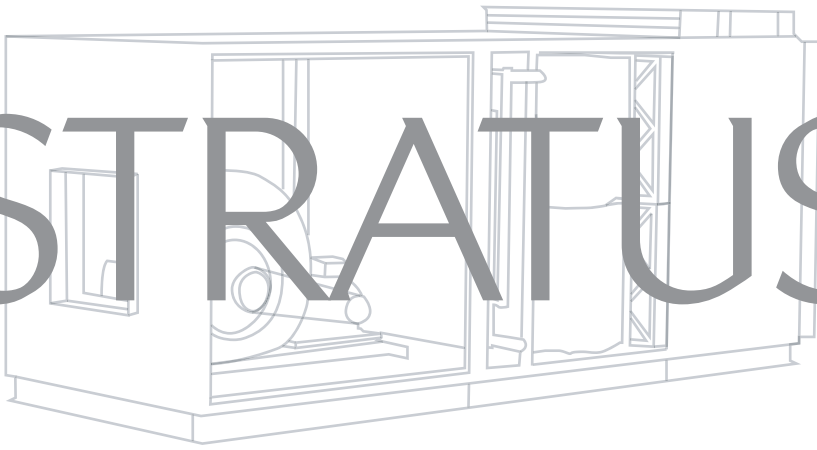


STRATUS



Stratus Belt Driven unit with two-way mixing box panel, pleated panel filter, bag filter and L.P.H.W. Coil

STRATUS



With twelve standard sizes and air volumes up to 5.8 m³/sec, the STRATUS Range is suitable for those air handling applications where space and size is not a strong consideration, but flexibility in meeting precise design and performance criteria.

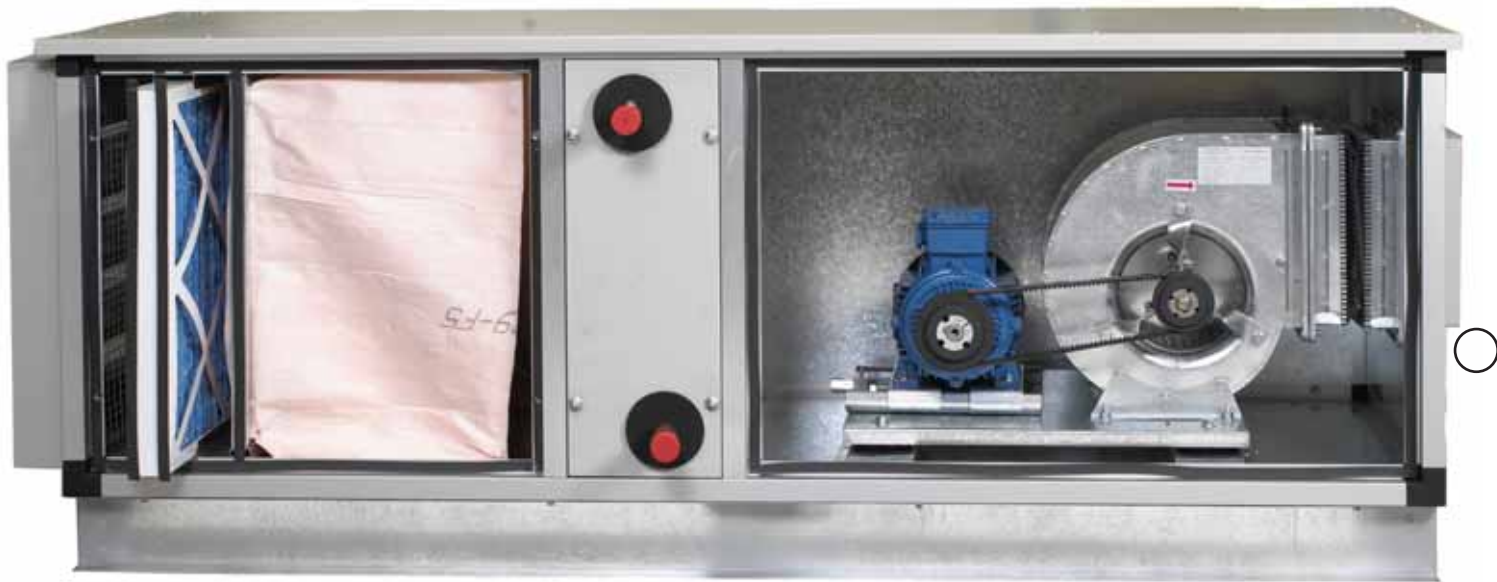
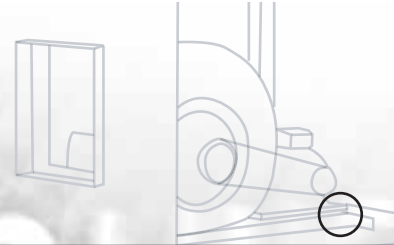
The standard range of STRATUS air handling units offers a range of Belt driven Forward or Backward curved D.I.D.W. centrifugal fans, pleated panel filters and L.P.H.W. Heating coils or Electric Heater Batteries, all housed within an aluminium pentapost frame with double skinned panels.

Each STRATUS unit within the standard range has been designed for either internal or external mounting applications, with external units incorporating weather cowls and intake or discharge louvres.



STRATUS Belt Drive Air Handling Unit

FEATURES & BENEFITS



FEATURES & BENEFITS

- * Excellent performance characteristics with Air volumes of up to 5.8 m³/sec.
- * Flexibility in design with internal or external mounting units and a comprehensive range of accessories.
- * Slide rails allow installation and regular maintenance of standard components with minimal effort.
- * A cost effective, fast build alternative to welded steel frame air handling units.
- * A flexible modular construction which provides an easier on site build option.
- * Double skinned panels with smooth, clean lined outer skins to create an attractive, quality appearance and finish.
- * A framing structure which enables versatility in design by providing hanging, stacking or joining configurations.
- * Individual sections are joined by internal bolted joints, which makes on site installation easier and faster.
- * Matching silencers are available to fit onto the inlet or outlet of the unit via a spacer section.
- * Units can be supplied with various heat recovery options to reduce energy consumption.
- * Units are acoustically and thermally lined.
- * All units can be supplied as Flat-Pac when access to plant room or site location is limited.
- * Channel base is fitted to all sections and Lockable panels are incorporated.

STRATUS Belt Drive Air Handling Unit

COMPONENT SPECIFICATION

CASING

General

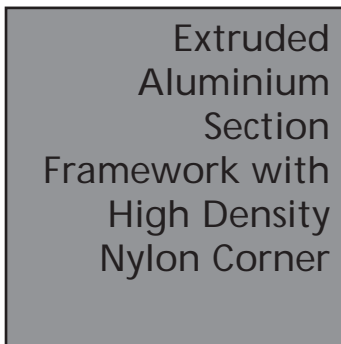
The STRATUS Belt drive pentapost units are suitable for either internal or external mounting arrangements.

Although all units have galvanised casings as standard, they can be supplied with plastisol coated steel outer skins upon request.

Panels are flush mounted into the unit framework rebates on a crush resistant closed cell neoprene sealing gasket, which provides an air seal between the panel and the component sections. Gaskets are chemically and biologically inert and meet all requirements of DW 144.



Crush Resistant Neoprene Gasket



Extruded Aluminium Section Framework with High Density Nylon Corner



Internal Units

The standard STRATUS pentapost Air Handling units have an AA25 Anodised finish extruded aluminium section, constructed from either a 30mm or 40mm framework with a wall thickness of 1.5mm or 2.0mm dependant upon model selection.

The mullion section is used between access panels and where panels are joined as part of the pentapost framework. The mullion is constructed from an AA25 Anodised finish extruded aluminium section, with a wall thickness of 1.5mm

The specially designed durable corner sections for the 30 or 40mm framework are manufactured from black high density glass reinforced nylon, providing a framework of strength and rigidity, onto which all internal components and casing panels are mounted.

All access panels are held firmly in place on the framework by means of fasteners, which exert pressure evenly between the panels and sealing gasket. Access panels are lift off type with Allen key operated 'quick release' fasteners, while all other fixed panels are retained with roofing bolts, sealed using a high modulus acetox cure silicone sealant to BS 5889 Type B.

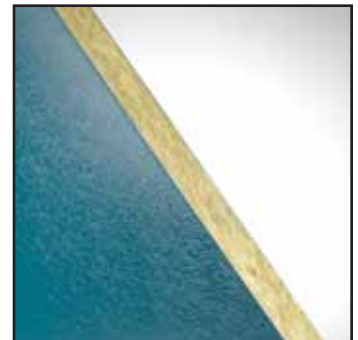
Handles are fitted to access panels as standard for ease of handling and removal from the air handling unit framework, which facilitates access to components for regular maintenance.

Access panels can be hinged if required at no extra cost, which enables servicing of the unit without having to completely remove the panel.

Infill panels are double skinned, constructed from 1.0mm thick pre galvanised sheet steel to BS 2989 Z2 inner and outer skins, using a sandwich construction enclosing 25mm of 65kg/m³ mineral wool insulation, which is completely encapsulated between the steel sheets for low noise transmission and heat insulation.

N.B. Fan access and filter removal can be from top, bottom or both sides.

Double Skinned Insulated Panel



STRATUS Belt Drive Air Handling Unit COMPONENT SPECIFICATION Cont...



External Units

The STRATUS pentapost Air Handling units have an AA25 anodised extruded aluminium section, constructed from either a 30mm or 40mm framework with a wall thickness of 1.5mm or 2.0mm dependant upon model selection.

The mullion section is used between access panels and where panels are joined as part of the pentapost framework. The mullion is constructed from an AA25 Anodised finish extruded aluminium section, with a wall thickness of 1.5mm

The specially designed durable corner sections for the 30 or 40mm framework are manufactured from black high density glass reinforced nylon, providing a framework of strength and rigidity, onto which all internal components and casing panels are mounted.



High Density Nylon Corner

Extruded Aluminium Section



Infill panels are double skinned, the inner skin constructed from 1.0mm thick pre galvanised sheet steel to BS 2989 Z2, with outer skins manufactured from 0.9mm Colorcoat HP200 material, British Steels roofing and cladding steel with 200 micrometre high performance plastisol coating, on a Galvatite hot dip zinc coated substrate to BS EN 10147. Infill panels use a sandwich construction enclosing 25mm of 65kg/m³ mineral wool insulation, which is completely encapsulated between the inner and outer skins to provide acoustic and thermal insulation.

Handles are fitted as standard to access panels for ease of handling and removal from the air handling unit framework, which facilitates access to components for regular maintenance.

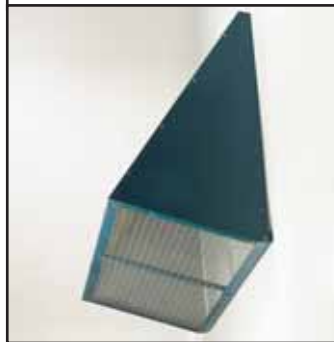
Access Door Handle



All units are fitted with a weather cowl and intake or discharge louvres incorporating bird mesh screens to protect the air inlet or discharge openings against inclement weather.

All weather caps and external louvres are manufactured from 0.9mm Colorcoat HP200 material, British Steels roofing and cladding steel with 200 micrometre high performance plastisol coating, on a Galvatite hot dip zinc coated substrate to BS EN 10326:2001.

N.B. Fan access and filter removal can be from top, bottom or both sides.



Weather Cowl

Intake/Discharge Louvre With Bird Mesh Screen



BASE FRAMES

Base frames are formed from 2.0mm thick pre galvanised sheet steel to BS EN 10142. The 100mm x 50mm high base frames are bolted together so as to achieve a rigid base for the Air handling unit.

The channels come complete with pre-pierced holes for fixing in position and holes for lifting bars.

In accordance with our policy of constant product development we reserve the right to alter from published data without prior notice.

STRATUS Belt Drive Air Handling Unit

COMPONENT SPECIFICATION Cont...

FANS & MOTORS

The fans are either double inlet double width or single inlet single width forward or backward curved centrifugal impellers housed in scrolls manufactured from pre hot dip galvanized steel EN 10142. Shafts are manufactured to EN 10083-2 Grade C40 or C45 carbon steel using precision tools to cut keyways. All shafts are coated after assembly with an anti corrosion varnish.

The fan shaft is fixed by sealed for life bearings according to their size and features. Bearings used are either deep groove ball bearing type with an eccentric locking collar or an adapter sleeve, or spherical roller bearings dependant on duty. Light duty fan bearings are mounted in a rubber housing on inlet bolted spiders and heavy duty fans will have bearings mounted on cast iron supports.

Electric motors are squirrel cage induction, totally enclosed, fan cooled type, improved efficiency EFF2. Motors are suitable for 400V / 3Ph / 50Hz electrical supply, with Class F insulation in accordance with IEC 34-5 and IP55 protection class.

Electric motor options include; Three phase, multi-voltage, 50/60Hz, Single phase, 50Hz, Single Speed and 2 Speed Dahlander Winding or Dual Wound.



Pulley



Belt Drive Fan

The fan and motor are mounted on a sub frame, isolated from the unit casing by spring Anti-Vibration mounts and flexible connection from the fan discharge to minimise noise and vibration transmission.

All wheels are statically and dynamically balanced to ISO1940 and AMCA 204/3 – G6.3 standards.

Fans are suitable for operating temperatures of between -20° C and +100° C depending on fan selection.

Fan ratings are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Pulleys

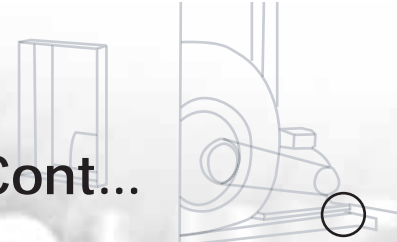
Pulleys are manufactured in accordance with ISO4183 and DIN2111. Made from GG25 cast iron, dynamically balanced and phosphated. The belts used are a wrapped wedge belt which is temperature and oil resistant with antistatic properties.

The wedge belt has a deeper cross section than conventional V-belts, therefore ensuring excellent grip and greater power ratings. The belts operating temperature range is -30 to +80 degrees C. The belts conform to ISO 4184, DIN 7753 and BS 3790, they also meet ISO 1813 for static conductivity. Taperlocks are manufactured from mild steel with machined key ways to BS 4235 Part 1 1972.

Twin Belt Drive Units Available Upon Request



STRATUS Belt Drive Air Handling Unit COMPONENT SPECIFICATION Cont...

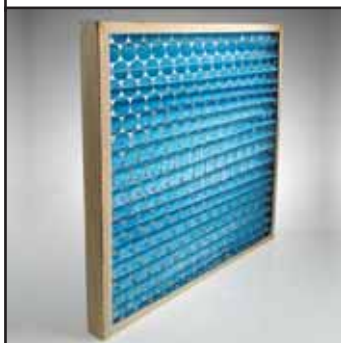


FILTERS

Pleated Panel filters are 50 or 100mm deep disposable type to Grade G4, in accordance with BS EN 779 1993 (EU4) and have a maximum operating temperature of 100 °C.

They are for side withdrawal, mounted into the unit on slide rails, which are manufactured from pre-galvanised sheet steel to enable filter replacement.

Pleated Panel filters are manufactured from pleated media which consists of reinforced non-woven fibres, with expanded diamond grid to provide maximum support. Pleating the media effectively increases the filtration area to more than three times that of the face area, providing high dust holding capacity and low pressure loss. The pleat pack is encased in a water resistant lattice cardboard frame.



Electric Heater Batteries (E.H.B.)

Elements are constructed from Nichrome 5 spiral resistance wire surrounded by magnesium oxide powder and sheathed in stainless steel. The elements are mounted on a galvanized sheet steel terminal housing. All electric heaters are fitted with high temperature thermal cut out protection for wiring into the control circuit and are generally available in the power and number of steps required.

A control system must be provided to ensure the heater is not activated when there is no airflow and the fan runs on after the heater has been switched off, to dissipate any residual heat. It is recommended that a fan run on timer be incorporated within the controls to prevent possible heat damage, as well as an airflow switch.



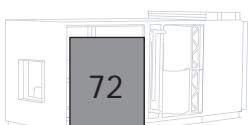
HEATERS

Hot Water Heating Coils (L.P.H.W.)

Coils are constructed from seamless drawn copper tube to BS 2871 mechanically expanded into aluminium fins with die formed self spacing collars. The coil casing is formed from heavy gauge galvanised sheet to BS 2989 to make a rigid assembly, with BSP(M) pipe fittings on coil flow and return connections. Tube end plates have die formed collared holes to allow expansion and contraction of the tubes without damage.

All coils are subjected to an air under water test to 16 bar during manufacture.

All coil sections are fitted into the units on pre-galvanised slide rails for ease of assembly and withdrawal.



STRATUS Belt Drive Air Handling Unit

PERFORMANCE & ELECTRICAL

SA30

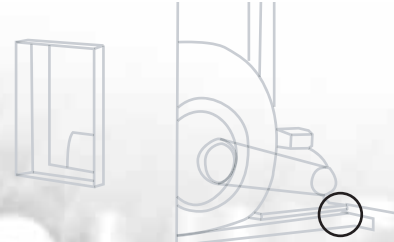
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	100	100	100	100	100	100
Fan Speed r/min	1507	1565	1647	1851	2088	2213
Motor kW	0.37	0.37	0.37	0.55	0.75	1.1
dBA@3M	66	67	69	71	77	78
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	150	150	150	150	150	150
Fan Speed r/min	1703	1743	1806	1981	2199	2316
Motor kW	0.37	0.37	0.37	0.55	0.75	1.1
dBA@3M	69	69	71	74	77	79
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	200	200	200	200	200	200
Fan Speed r/min	1882	1912	1959	2107	2306	2416
Motor kW	0.37	0.37	0.37	0.55	0.75	1.1
dBA@3M	71	71	72	75	78	79
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	250	250	250	250	250	250
Fan Speed r/min	2046	2070	2106	2229	2411	2514
Motor kW	0.37	0.37	0.37	0.55	1.1	1.1
dBA@3M	73	73	74	76	78	80
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	300	300	300	300	300	300
Fan Speed r/min	2197	2219	2247	2349	2513	2609
Motor kW	0.37	0.37	0.55	0.75	1.1	1.1
dBA@3M	74	74	75	77	79	80
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	400	400	400	400	400	400
Fan Speed r/min	2468	2492	2512	2581	2713	2796
Motor kW	0.37	0.37	0.55	0.75	1.1	1.5
dBA@3M	77	77	77	78	80	81
Air Vol. m ³ /sec	0.2	0.25	0.3	0.4	0.5	0.55
External Resis. Pa	500	500	500	500	500	500
Fan Speed r/min	2708	2737	2755	2802	2906	2977
Motor kW	0.55	0.55	0.75	1.1	1.5	1.5
dBA@3M	80	79	79	80	81	82

SA 40

Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	100	100	100	100	100	100
Fan Speed r/min	1092	1122	1167	1222	1287	1359
Motor kW	0.37	0.37	0.55	0.55	0.75	1.1
dBA@3M	70	71	72	74	75	77
Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	150	150	150	150	150	150
Fan Speed r/min	1225	1245	1278	1321	1378	1442
Motor kW	0.37	0.55	0.55	0.75	1.1	1.1
dBA@3M	72	73	74	75	76	78
Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	200	200	200	200	200	200
Fan Speed r/min	1345	1361	1384	1418	1466	1523
Motor kW	0.37	0.55	0.75	0.75	1.1	1.5
dBA@3M	74	75	75	76	77	79
Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	250	250	250	250	250	250
Fan Speed r/min	1455	1469	1486	1512	1552	1602
Motor kW	0.55	0.55	0.75	1.1	1.1	1.5
dBA@3M	76	76	77	77	78	79
Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	300	300	300	300	300	300
Fan Speed r/min	1557	1571	1583	1603	1636	1679
Motor kW	0.55	0.75	1.1	1.1	1.1	1.5
dBA@3M	77	78	78	78	79	80
Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	400	400	400	400	400	400
Fan Speed r/min	1739	1756	1766	1776	1798	1830
Motor kW	0.75	1.1	1.1	1.1	1.5	2.2
dBA@3M	80	80	80	80	81	82
Air Vol. m ³ /sec	0.4	0.5	0.6	0.7	0.8	0.9
External Resis. Pa	500	500	500	500	500	500
Fan Speed r/min	1901	1923	1933	1939	1952	1975
Motor kW	1.1	1.1	1.1	1.5	2.2	2.2
dBA@3M	82	82	82	82	83	83

STRATUS Belt Drive Air Handling Unit

PERFORMANCE & ELECTRICAL



SA 45

Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	100	100	100	100	100	100
Fan Speed r/min	938	996	1060	1137	1222	1305
Motor kW	0.37	0.55	1.1	1.5	2.2	2.2
dBA@3M	70	72	75	78	80	83
Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	150	150	150	150	150	150
Fan Speed r/min	1054	1093	1144	1212	1290	1368
Motor kW	0.55	0.75	1.1	1.5	2.2	3.0
dBA@3M	72	74	76	78	81	83
Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	200	200	200	200	200	200
Fan Speed r/min	1162	1187	1225	1284	1356	1430
Motor kW	0.55	0.75	1.1	1.5	2.2	3.0
dBA@3M	74	75	77	79	81	83
Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	250	250	250	250	250	250
Fan Speed r/min	1264	1277	1303	1354	1420	1489
Motor kW	0.75	1.1	1.1	1.5	2.2	3.0
dBA@3M	76	77	78	80	82	84
Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	300	300	300	300	300	300
Fan Speed r/min	1358	1365	1380	1422	1482	1547
Motor kW	0.75	1.1	1.5	2.2	2.2	3.0
dBA@3M	78	78	79	81	82	84
Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	400	400	400	400	400	400
Fan Speed r/min	1530	1530	1529	1554	1602	1657
Motor kW	1.1	1.5	1.5	2.2	3.0	4.0
dBA@3M	80	80	81	82	83	85
Air Vol. m ³ /sec	0.6	0.8	1.0	1.2	1.4	1.6
External Resis. Pa	500	500	500	500	500	500
Fan Speed r/min	1683	1682	1671	1682	1717	1764
Motor kW	1.1	1.5	2.2	2.2	3.0	4.0
dBA@3M	82	82	83	83	84	86

SA 50

Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	100	100	100	100	100	100
Fan Speed r/min	816	860	898	969	1049	1130
Motor kW	0.55	0.75	1.1	1.5	2.2	3.0
dBA@3M	70	73	75	78	81	83
Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	150	150	150	150	150	150
Fan Speed r/min	916	947	975	1037	1110	1189
Motor kW	0.55	0.75	1.1	1.5	2.2	3.0
dBA@3M	72	74	76	78	81	84
Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	200	200	200	200	200	200
Fan Speed r/min	1011	1030	1050	1102	1168	1242
Motor kW	0.75	1.1	1.1	2.2	3.0	4.0
dBA@3M	74	75	77	79	82	84
Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	250	250	250	250	250	250
Fan Speed r/min	1100	1111	1122	1164	1225	1293
Motor kW	1.1	1.1	1.5	2.2	3.0	4.0
dBA@3M	76	77	78	80	82	85
Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	300	300	300	300	300	300
Fan Speed r/min	1184	1189	1193	1226	1280	1343
Motor kW	1.1	1.1	1.5	2.2	3.0	4.0
dBA@3M	77	78	79	81	83	85
Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	400	400	400	400	400	400
Fan Speed r/min	1337	1336	1329	1344	1386	1441
Motor kW	1.1	1.5	2.2	3.0	3.0	4.0
dBA@3M	80	80	81	82	84	86
Air Vol. m ³ /sec	0.8	1.0	1.2	1.5	1.8	2.1
External Resis. Pa	500	500	500	500	500	500
Fan Speed r/min	1474	1472	1457	1459	1488	1534
Motor kW	1.5	2.2	2.2	3	4.0	4.0
dBA@3M	82	82	82	83	85	87

STRATUS Belt Drive Air Handling Unit

PERFORMANCE & ELECTRICAL

SA 55

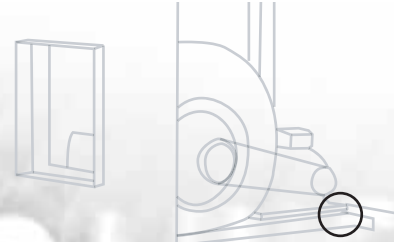
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	100	100	100	100	100	100
Fan Speed r/min	658	688	709	743	769	806
Motor kW	1.1	1.1	1.5	2.2	2.2	3.0
dBA@3M	73	74	76	78	79	81
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	150	150	150	150	150	150
Fan Speed r/min	732	756	772	800	822	855
Motor kW	1.1	1.5	1.5	2.2	3.0	3.0
dBA@3M	75	76	77	79	80	81
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	200	200	200	200	200	200
Fan Speed r/min	803	821	832	854	873	903
Motor kW	1.5	1.5	2.2	2.2	3.0	4.0
dBA@3M	76	77	78	79	80	82
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	250	250	250	250	250	250
Fan Speed r/min	870	883	890	907	923	949
Motor kW	1.5	2.2	2.2	3.0	3.0	4.0
dBA@3M	78	78	79	80	81	83
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	300	300	300	300	300	300
Fan Speed r/min	933	943	947	959	972	994
Motor kW	1.5	2.2	2.2	3.0	3.0	4.0
dBA@3M	79	80	80	81	82	83
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	400	400	400	400	400	400
Fan Speed r/min	1051	1057	1056	1059	1067	1082
Motor kW	2.2	2.2	3.0	3.0	4.0	4.0
dBA@3M	81	82	82	83	83	84
Air Vol. m ³ /sec	1.4	1.6	1.8	2.1	2.3	2.6
External Resis. Pa	500	500	500	500	500	500
Fan Speed r/min	1157	1162	1158	1155	1158	1167
Motor kW	3.0	3.0	3.0	4.0	4.0	5.5
dBA@3M	83	84	84	84	85	86

SA 60

Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	100	100	100	100	100	100
Fan Speed r/min	601	629	646	664	692	719
Motor kW	1.5	1.5	2.2	2.2	3.0	4.0
dBA@3M	75	76	77	78	80	81
Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	150	150	150	150	150	150
Fan Speed r/min	664	687	701	716	740	764
Motor kW	1.5	2.2	2.2	2.2	3.0	4.0
dBA@3M	76	77	78	79	81	82
Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	200	200	200	200	200	200
Fan Speed r/min	724	743	754	766	786	807
Motor kW	2.2	2.2	3.0	3.0	4.0	4.0
dBA@3M	78	79	79	80	81	83
Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	250	250	250	250	250	250
Fan Speed r/min	781	798	805	814	831	849
Motor kW	2.2	3.0	3.0	3.0	4.0	4.0
dBA@3M	79	80	80	81	82	83
Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	300	300	300	300	300	300
Fan Speed r/min	836	850	855	862	875	891
Motor kW	2.2	3.0	3.0	3.0	4.0	4.0
dBA@3M	80	81	81	82	83	84
Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	400	400	400	400	400	400
Fan Speed r/min	938	949	950	953	961	971
Motor kW	3.0	3.0	4.0	4.0	4.0	5.5
dBA@3M	83	83	83	84	84	85
Air Vol. m ³ /sec	1.9	2.1	2.3	2.5	2.8	3.1
External Resis. Pa	500	500	500	500	500	500
Fan Speed r/min	1032	1040	1040	1040	1043	1049
Motor kW	4.0	4.0	4.0	4.0	5.5	5.5
dBA@3M	84	85	85	85	86	86

STRATUS Belt Drive Air Handling Unit

L.P.H.W. HEATING DATA

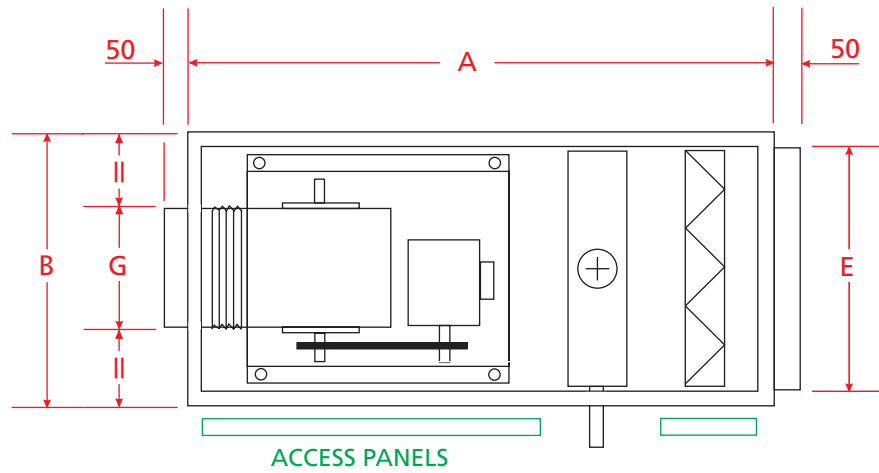


L.P.H.W. Heater Duties (82 deg C Flow / 71 deg C return)

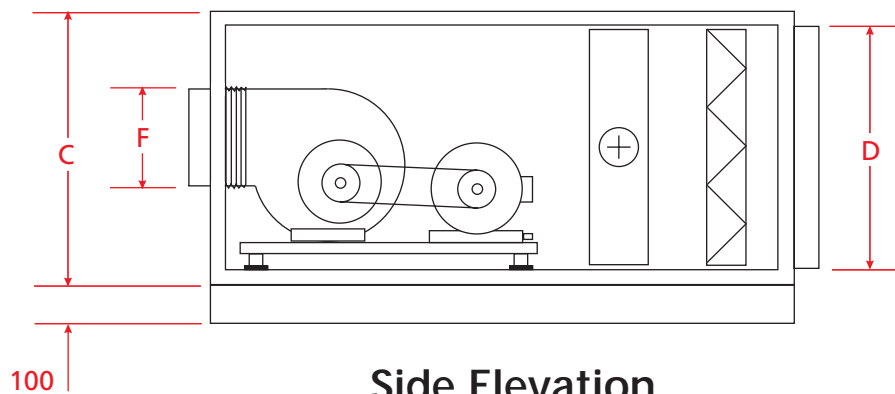
Model	Airside		Waterside			
	Air Volume m ³ /sec	Temp. Rise Degrees C	Duty kW	Flow l/sec	P D kPa	Connections F & R
SA 30	0.20	45	10.8	0.235	5.0	1.0 ins BSP
SA 30	0.25	41	12.3	0.268	6.0	1.0 ins BSP
SA 30	0.30	37	13.3	0.290	6.0	1.0 ins BSP
SA 30	0.40	33	15.8	0.345	7.0	1.0 ins BSP
SA 30	0.50	29	17.4	0.379	8.0	1.0 ins BSP
SA 40	0.55	27	17.8	0.388	8.0	1.0 ins BSP
SA 40	0.40	41	19.7	0.428	4.0	1.25 ins BSP
SA 40	0.50	36	21.6	0.470	5.0	1.25 ins BSP
SA 40	0.60	33	23.7	0.517	5.0	1.25 ins BSP
SA 40	0.70	31	26.0	0.567	6.0	1.25 ins BSP
SA 40	0.80	29	27.8	0.606	7.0	1.25 ins BSP
SA 40	0.90	27	29.2	0.635	7.0	1.25 ins BSP
SA 45	0.60	45	32.4	0.705	4.0	1.25 ins BSP
SA 45	0.80	41	39.4	0.857	10.0	1.25 ins BSP
SA 45	1.00	37	44.4	0.966	12.0	1.25 ins BSP
SA 45	1.20	34	49.0	1.065	14.0	1.25 ins BSP
SA 45	1.40	31	52.1	1.133	16.0	1.25 ins BSP
SA 45	1.60	28	53.8	1.170	17.0	1.25 ins BSP
SA 50	0.80	45	43.2	0.94	5.0	1.5 ins BSP
SA 50	1.00	41	49.2	1.071	9.0	1.5 ins BSP
SA 50	1.20	37	53.3	1.159	10.0	1.5 ins BSP
SA 50	1.50	33	59.4	1.293	10.0	1.5 ins BSP
SA 50	1.80	30	64.9	1.410	12.0	1.5 ins BSP
SA 50	2.10	27	68.1	1.481	13.0	1.5 ins BSP
SA 55	1.40	39	65.2	1.426	9.0	1.5 ins BSP
SA 55	1.60	36	69.2	1.504	10.0	1.5 ins BSP
SA 55	1.80	33	71.3	1.551	11.0	1.5 ins BSP
SA 55	2.10	31	78.2	1.700	13.0	1.5 ins BSP
SA 55	2.30	30	82.9	1.802	15.0	1.5 ins BSP
SA 55	2.60	28	87.4	1.901	16.0	1.5 ins BSP
SA 60	1.90	37	84.4	1.836	13.0	2.0 ins BSP
SA 60	2.10	35	88.3	1.919	14.0	2.0 ins BSP
SA 60	2.30	34	93.9	2.042	14.0	2.0 ins BSP
SA 60	2.50	32	96.1	2.089	14.0	2.0 ins BSP
SA 60	2.80	30	100.9	2.194	16.0	2.0 ins BSP
SA 60	3.10	27	100.6	2.186	16.0	2.0 ins BSP

STRATUS Belt Drive Air Handling Unit

DIMENSIONS



Plan



Side Elevation

Model	A	B	C	D	E	F	G	Weight kg *	
								L.P.H.W.	E.H.B.
SA 30	1470	660	460	400	600	205	205	130	128
SA 40	1470	660	710	650	600	285	285	185	199
SA 45	1470	960	710	650	900	320	320	233	247
SA 50	1770	1270	710	650	1210	361	361	312	292
SA 55	1770	1270	870	810	1210	456	456	348	322
SA 60	1770	1270	1030	950	1190	506	505	404	402

N.B. All Dimensions in mm. Lengths exclude unit intake and discharge spigots.

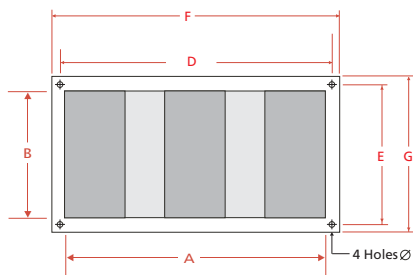
When an Electric Heater Battery is fitted, dimension 'A' may increase, therefore please enquire.

*Specifies Weight with L.P.H.W or Electric Heater Battery Component



STRATUS Belt Drive Air Handling Unit

SILENCER PERFORMANCE & DIMENSIONAL DATA



CONSTRUCTION

1.0mm or 1.2mm Galvanised sheet steel casing.

25mm or 35mm Ductmate flanges.

Infill mineral wool with scrim facing and expanded mesh retainer.

Silencers with 50mm Airways

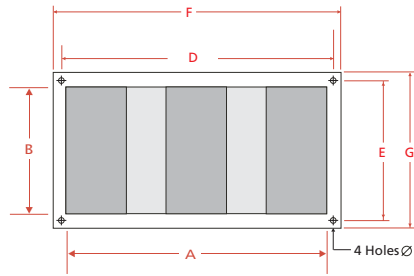
Model	A	B	Length	D	E	F	G	No. of Airways	Duty m ³ /sec	Resis. Pa	Weight kg
SADM 1-50-0600	500	250	600	520	270	550	300	2	0.20	42	14
SADM 1-50-0900			900								21
SADM 1-50-1200			1200								27
SADM 1-50-1500			1500								33
SADM 1-50-1800			1800								40
SADM 2-50-0600	500	375	600	520	395	550	425	2	0.30	42	18
SADM 2-50-0900			900								27
SADM 2-50-1200			1200								35
SADM 2-50-1500			1500								44
SADM 2-50-1800			1800								52
SADM 3-50-0600	500	500	600	520	520	550	550	2	0.40	42	23
SADM 3-50-0900			900								33
SADM 3-50-1200			1200								44
SADM 3-50-1500			1500								55
SADM 3-50-1800			1800								65
SADM 4-50-0600	750	500	600	770	520	800	550	3	0.60	42	31
SADM 4-50-0900			900								46
SADM 4-50-1200			1200								61
SADM 4-50-1500			1500								75
SADM 4-50-1800			1800								90
SADM 5-50-0600	750	750	600	770	770	800	800	3	0.90	42	43
SADM 5-50-0900			900								63
SADM 5-50-1200			1200								84
SADM 5-50-1500			1500								104
SADM 5-50-1800			1800								124
SADM 6-50-0600	1000	750	600	1030	780	1070	820	4	1.20	42	62
SADM 6-50-0900			900								90
SADM 6-50-1200			1200								119
SADM 6-50-1500			1500								147
SADM 6-50-1800			1800								176
SADM 7-50-0600	1000	950	600	1030	980	1070	1020	4	1.52	42	74
SADM 7-50-0900			900								109
SADM 7-50-1200			1200								143
SADM 7-50-1500			1500								178
SADM 7-50-1800			1800								213
SADM 8-50-0600	1250	750	600	1280	780	1320	820	5	1.50	42	74
SADM 8-50-0900			900								109
SADM 8-50-1200			1200								143
SADM 8-50-1500			1500								178
SADM 8-50-1800			1800								212
SADM 9-50-0600	1250	950	600	1280	980	1320	1020	5	1.90	42	89
SADM 9-50-0900			900								131
SADM 9-50-1200			1200								172
SADM 9-50-1500			1500								214
SADM 9-50-1800			1800								256
SADM 10-50-0600	1500	950	600	1530	980	1570	1020	6	2.28	42	104
SADM 10-50-0900			900								152
SADM 10-50-1200			1200								201
SADM 10-50-1500			1500								250
SADM 10-50-1800			1800								299

Static insertion loss dB for silencers with 50mm airways

Silencer Length mm	Octave Band Centre Frequencies Hz							
	63	125	250	500	1000	2000	4000	8000
600	-4	-12	-17	-25	-32	-38	-35	-33
900	-7	-16	-24	-36	-45	-45	-45	-45
1200	-9	-21	-30	-45	-45	-45	-45	-45
1500	-11	-25	-41	-45	-45	-45	-45	-45
1800	-13	-29	-45	-45	-45	-45	-45	-45

STRATUS Belt Drive Air Handling Unit

SILENCER PERFORMANCE & DIMENSIONAL DATA



CONSTRUCTION

1.0mm or 1.2mm Galvanised sheet steel casing

25mm or 35mm Ductmate flanges

Infill mineral wool with scrim facing and expanded mesh retainer

Silencers with 75mm Airways

Model	A	B	Length	D	E	F	G	No. of Airways	Duty m ³ /sec	Resis. Pa	Weight kg
SADM 1-75-0600	275	250	600	295	270	325	300	1	0.17	43	9
SADM 1-75-0900			900								13
SADM 1-75-1200			1200								17
SADM 1-75-1500			1500								21
SADM 1-75-1800			1800								25
SADM 2-75-0600	550	375	600	570	395	600	2	0.51	43	19	
SADM 2-75-0900			900							28	
SADM 2-75-1200			1200							36	
SADM 2-75-1500			1500							45	
SADM 2-75-1800			1800							54	
SADM 3-75-0600	550	500	600	570	520	600	2	0.68	43	23	
SADM 3-75-0900			900							34	
SADM 3-75-1200			1200							45	
SADM 3-75-1500			1500							56	
SADM 3-75-1800			1800							67	
SADM 4-75-0600	825	500	600	845	520	875	3	1.01	43	32	
SADM 4-75-0900			900							47	
SADM 4-75-1200			1200							62	
SADM 4-75-1500			1500							77	
SADM 4-75-1800			1800							92	
SADM 5-75-0600	825	750	600	845	770	875	3	1.52	43	32	
SADM 5-75-0900			900							47	
SADM 5-75-1200			1200							62	
SADM 5-75-1500			1500							77	
SADM 5-75-1800			1800							92	
SADM 6-75-0600	1100	750	600	1130	780	1170	4	2.03	43	63	
SADM 6-75-0900			900							92	
SADM 6-75-1200			1200							122	
SADM 6-75-1500			1500							151	
SADM 6-75-1800			1800							180	
SADM 7-75-0600	1100	950	600	1130	980	1170	4	2.57	43	75	
SADM 7-75-0900			900							111	
SADM 7-75-1200			1200							146	
SADM 7-75-1500			1500							181	
SADM 7-75-1800			1800							217	
SADM 8-75-0600	1375	750	600	1405	780	1445	5	2.53	43	76	
SADM 8-75-0900			900							111	
SADM 8-75-1200			1200							146	
SADM 8-75-1500			1500							182	
SADM 8-75-1800			1800							217	
SADM 9-75-0600	1375	950	600	1405	980	1445	5	3.21	43	91	
SADM 9-75-0900			900							133	
SADM 9-75-1200			1200							176	
SADM 9-75-1500			1500							218	
SADM 9-75-1800			1800							261	
SADM 10-75-0600	1650	950	600	1680	980	1720	6	3.85	43	106	
SADM 10-75-0900			900							156	
SADM 10-75-1200			1200							205	
SADM 10-75-1500			1500							255	
SADM 10-75-1800			1800							305	

Static insertion loss dB for silencers with 75mm airways

Silencer Length mm	Octave Band Centre Frequencies Hz							
	63	125	250	500	1000	2000	4000	8000
600	-3	-7	-13	-21	-25	-27	-23	-13
900	-6	-10	-18	-33	-40	-40	-36	-17
1200	-7	-12	-23	-43	-45	-45	-45	-21
1500	-8	-14	-28	-45	-45	-45	-45	-24
1800	-9	-16	-33	-45	-45	-45	-45	-29