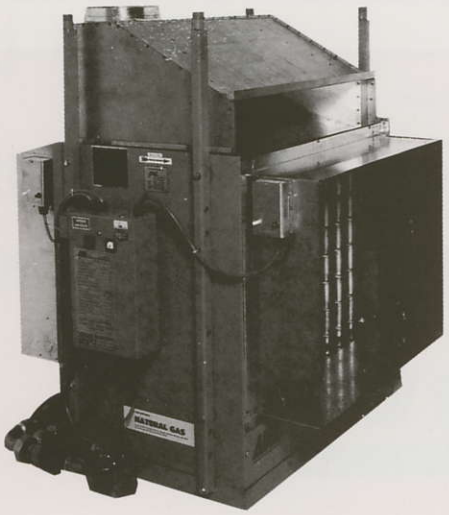
AIRA

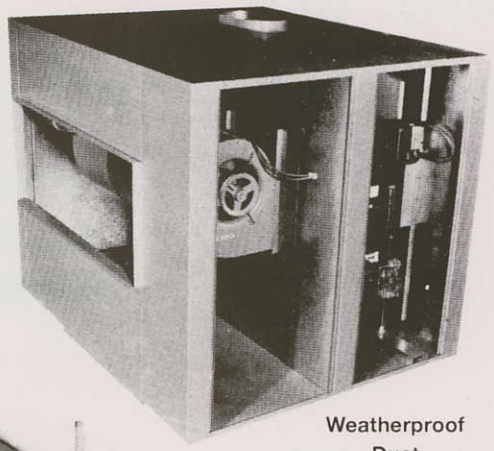
DU/SD series

●Gas Duct Furnaces & Heaters
●Spray Booth Heaters
●Process Heaters

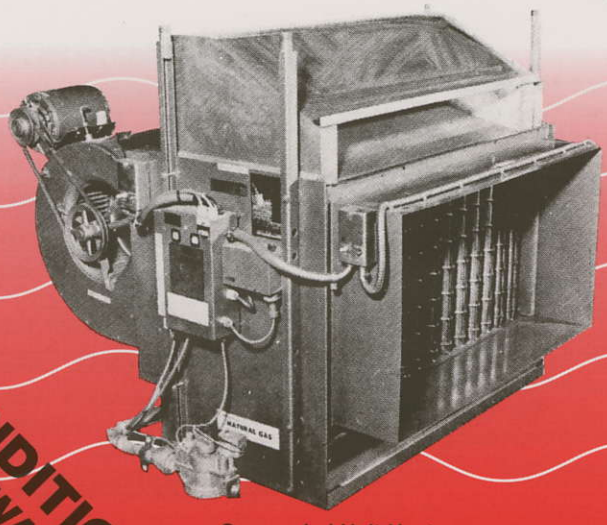
Dravo



Duct Furnace



Weatherproof Duct Furnace And Blower Combination



Suspended Unit Heater Complete With Blower

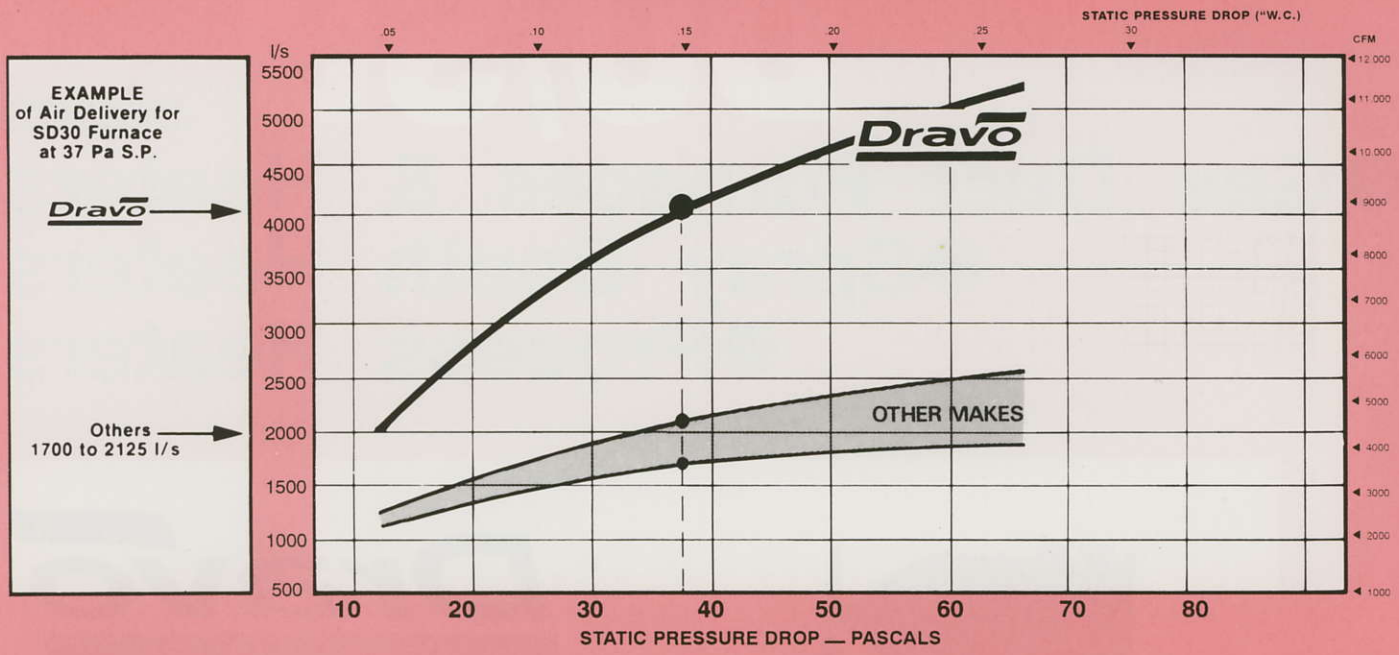
5 YEAR UNCONDITIONAL S/S HEAT EXCHANGER WARRANTY

MAKER'S WARRANTY
APPROVED DESIGN
This appliance complies with the requirements of THE AUSTRALIAN GAS ASSOCIATION

MADE IN AUSTRALIA

LOW PRESSURE DROP

COMPARE



Here are *NINE* compelling reasons why engineers and designers are specifying

Dravo

High Air Volume Gas Duct Furnaces

☑ SAVE COST

By-pass ducts are expensive and are not needed with AIRA Dravo High Air Volume Duct Furnaces.

☑ SAVE SPACE

By-pass ducts take up valuable space and can obstruct access to equipment and controls.

☑ SAVE POWER

Low pressure drop through the heat exchanger means less power required for motors on system fans.

☑ ELIMINATE TROUBLE

By-pass dampers require seasonal adjustments. If not regularly attended to, there is the possibility of mal-function and the risk of costly burnmouts.

☑ PREVENT STRATIFICATION

By-pass can permit cold air to stratify on one side of the duct, hot air on the other. AIRA Dravo Duct Furnaces heat the volume of air uniformly and permit quick branch "take-offs".

☑ MINIMISE BURNOUT

By-pass can reduce air flow through the heat exchanger, therefore increasing temperature to near danger point. AIRA Dravo Duct Furnaces take the capacity air flow with lower temperature rise.

☑ ELIMINATE OVERSIZING

To avoid by-pass ducts, some designers oversize duct furnaces, thereby adding to cost and temperature control problems. With AIRA Dravo the correct furnace size can be used without by-pass.

☑ FACTORY BACKING

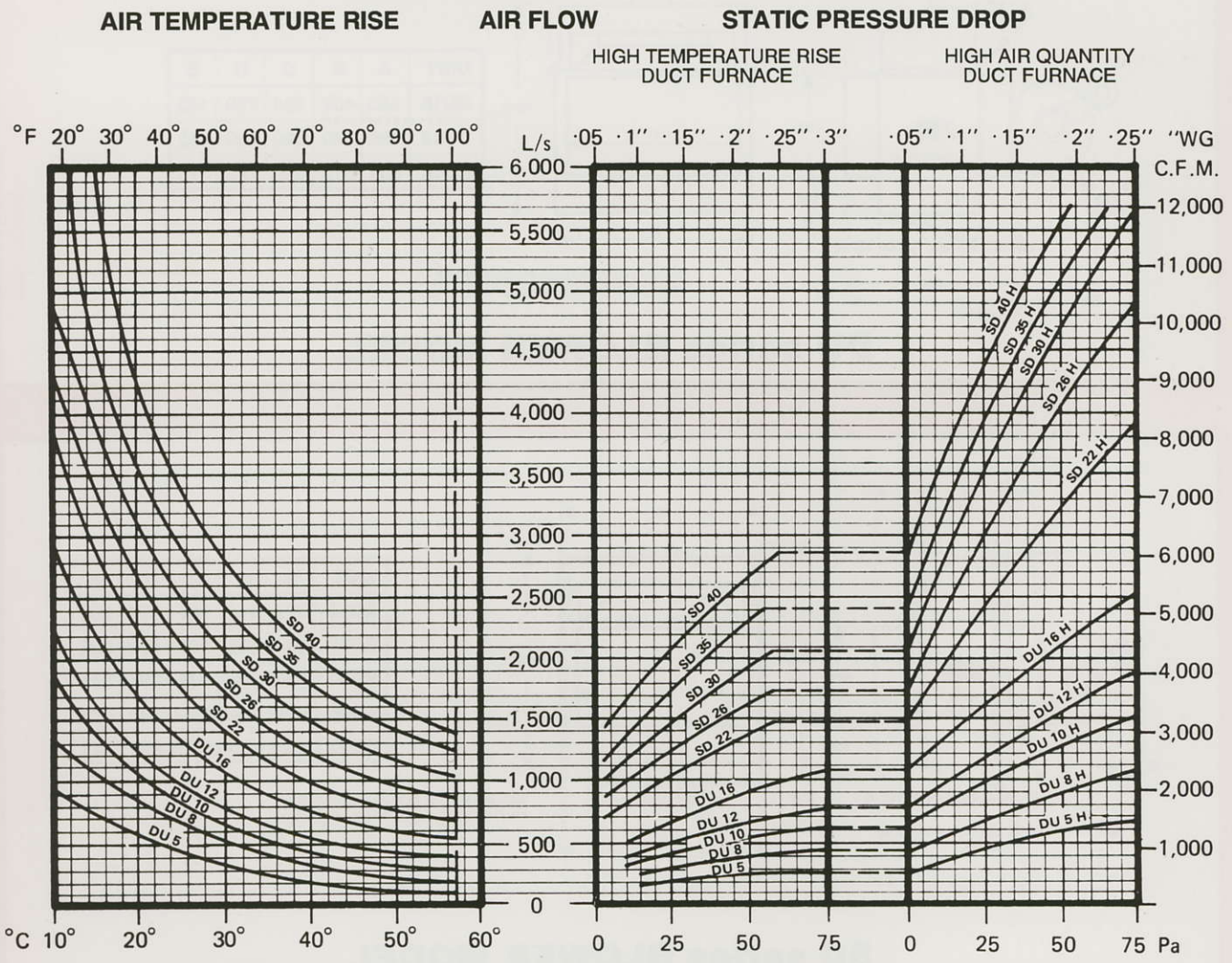
All stainless steel heat exchangers in AIRA Dravo Duct Furnaces and Heaters are covered by an *unconditional* 5 year warranty.

☑ AUSTRALIAN MADE

AIRA Dravo Duct Furnaces and Heaters are manufactured in Australia to the highest quality standards.

DU / SD series Performance Data

SINGLE DUCT FURNACES



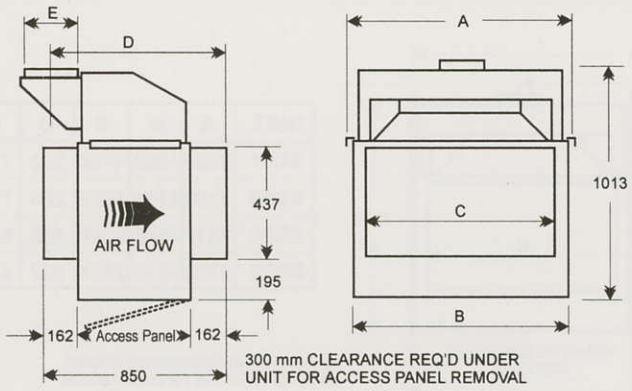
1. If air quantity is known; locate in graph above and read **LEFT** to intersection with curve of required furnace, then **DOWN** to find temperature rise. If air quantity is not fixed, use optimum heat rise of 33°C to find air quantity.
2. To find Pressure Drop through furnace, locate Air Quantity and read **RIGHT** to intersection with curve, then **DOWN** to S.P. Drop. Along same vertical line, read **UP** to find type of furnace to specify.
3. If intersection is at the **END** of the 'High Temperature Rise' curve, either the 'High Temperature Rise' or 'High Air Quantity'type furnace may be used.
4. Failure to provide minimum air quantityshown on curves will void the Heat Exchanger guarantee.
   Normal ***Leaving Air*** Temperature should not exceed 82°C. For "Process Heating" consult the factory.

CAPACITIES

MODEL			DU10	DU12	DU16	SD22	SD26	SD30	SD35	SD40	SD51	SD60	SD70	SD80
INPUT		Mj/hr	105.5	126.6	168.8	232.1	274.3	316.5	369.2	422	538	633	738.5	844
OUTPUT		kW	23.4	28.1	37.5	51.6	60.9	70.3	82.0	93.8	119.5	140.6	164	187.5
AIR QUANTITY & PRESSURE DROP	ΔT 28°C	L/s	698	840	1118	1500	1784	2100	2454	2785	3568	4200	4908	5570
		Pa	15	15	15	15	15	15	15	15	15	15	15	15
	ΔT 11°C	L/s	1746	2098	2800	3764	4460	5240	6316	6985	8920	10478	12272	13970
		Pa	60	60	60	60	60	60	60	60	60	60	60	60
WEIGHT		kg	73	80	98	114	132	150	168	191	263	300	336	382

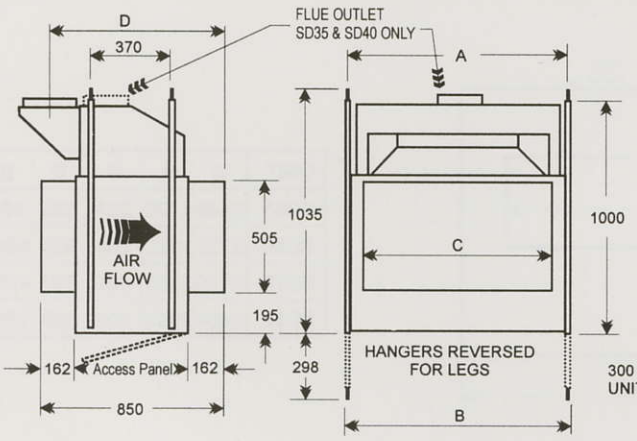
GAS PRESSURES REQUIRED (All units)

		Natural	L.P.G.	Manufactured/P.N.G	T.L.P.
MAXIMUM	kPa	3.5	3.5	3.5	3.5
MINIMUM	kPa	1.12	2.74	0.67	0.67



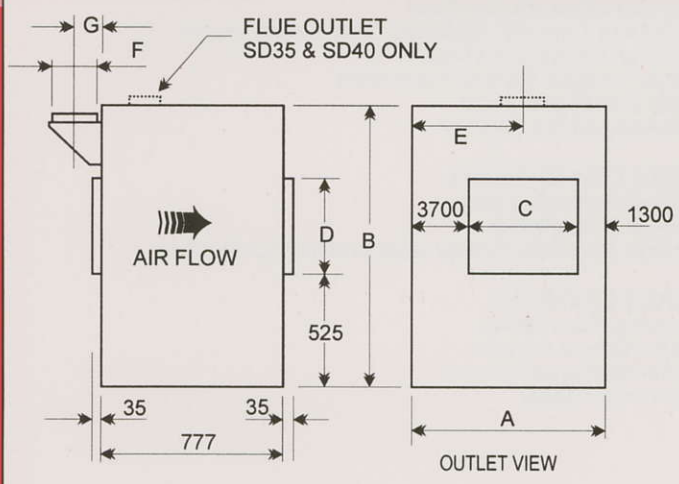
UNIT	A	B	C	D	E
DU10	350	402	324	750	152
DU12	496	470	390	750	152
DU16	636	610	528	762	178

DU Series DUCT FURNACE



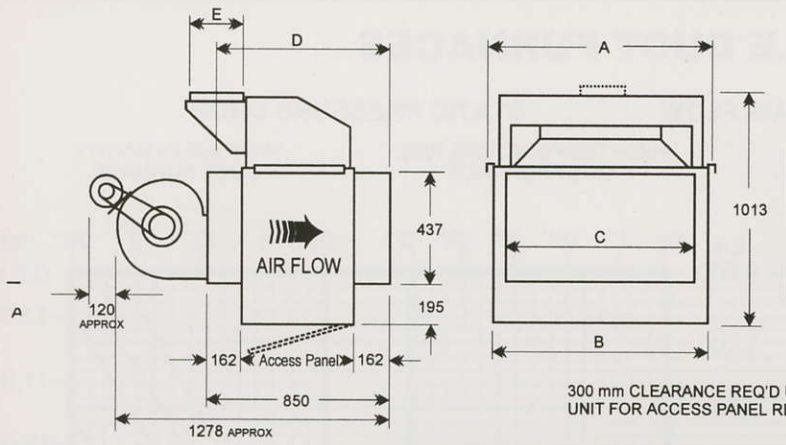
UNIT	A	B	C	D	E
SD22	778	814	664	770	203
SD26	914	948	800	770	203
SD30	1050	1084	938	795	254
SD35	1256	1290	1142	630	305
SD40	1391	1424	1278	630	305

SD series DUCT FURNACE



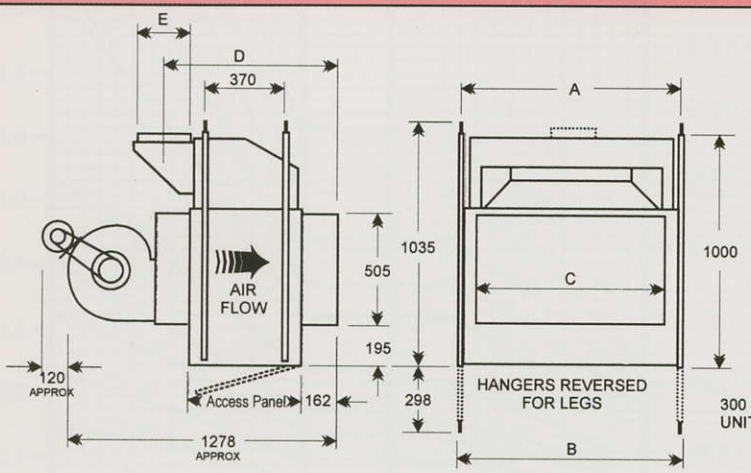
UNIT	A	B	C	D	E	F	G
DU10	824	1300	324	437	532	152	93
DU12	890	1300	390	437	565	152	93
DU16	1028	1300	528	437	634	178	106
SD22	1164	1450	664	505	702	203	118
SD26	1300	1450	800	505	770	203	118
SD30	1438	1450	938	505	839	254	144
SD35	1642	1450	1142	505	941	305	N/A
SD40	1778	1450	1278	505	1009	305	N/A

DU/SD series WEATHERPROOF DUCT FURNACE



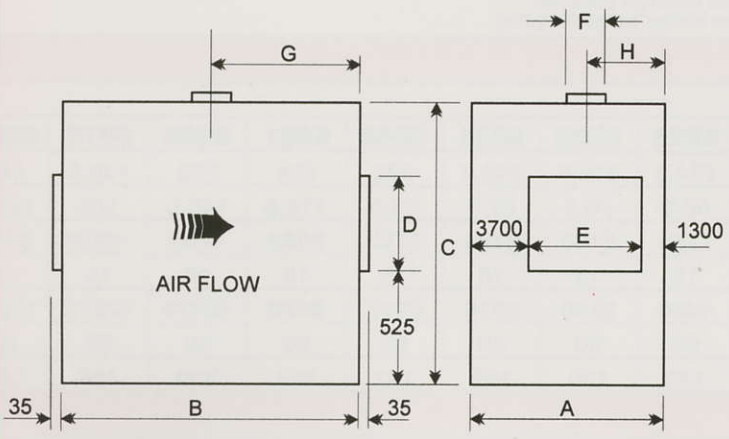
UNIT	A	B	C	D	E
DU10	350	402	324	750	152
DU12	496	470	390	750	152
DU16	636	610	528	762	178

DU series BLOWER MODEL



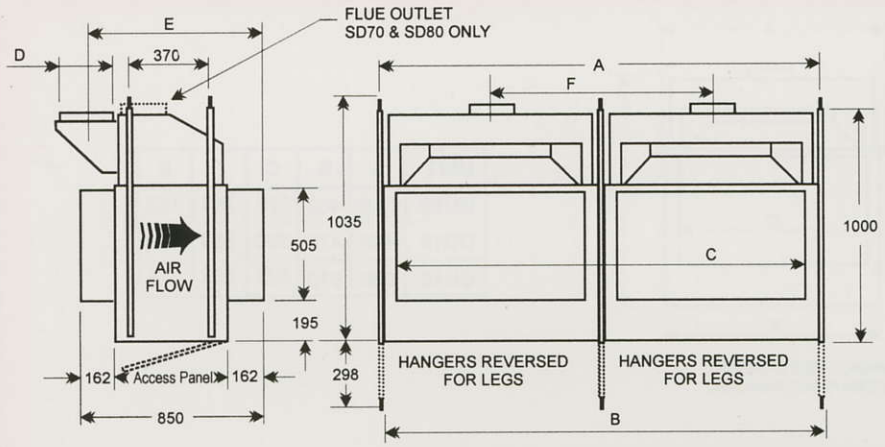
UNIT	A	B	C	D	E
SD22	778	814	664	770	203
SD26	914	948	800	770	203
SD30	1050	1084	938	795	254
SD35	1256	1290	1142	630	305
SD40	1391	1424	1278	630	305

SD series BLOWER MODEL



UNIT	A	B	C	D	E	F	G	H
DU10	824	1390	1300	437	324	152	750	532
DU12	890	1390	1300	437	390	152	750	565
DU16	1028	1390	1300	437	528	178	762	634
SD22	1164	1460	1450	505	664	203	770	702
SD26	1300	1460	1450	505	800	203	770	770
SD30	1438	1460	1450	505	938	254	795	839
SD35	1642	1460	1450	505	1142	305	630	941
SD40	1778	1460	1450	505	1278	305	630	1009

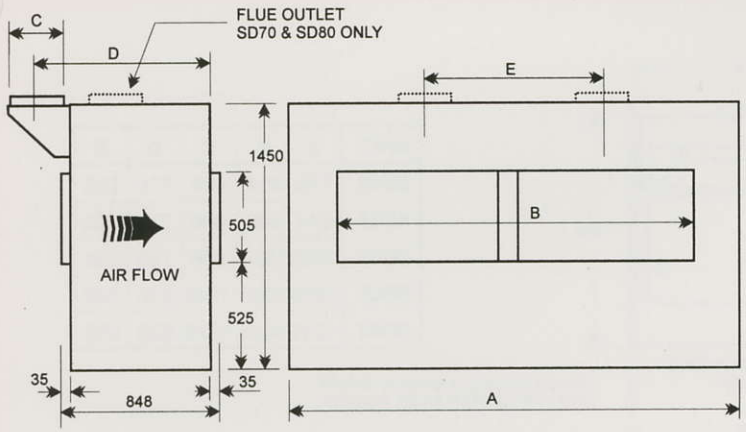
DU/SD series WEATHERPROOF BLOWER MODEL



UNIT	A	B	C	D	E	F
SD51	1828	1862	1706	203	770	908
SD60	2100	2134	1982	254	795	1046
SD70	2512	2546	2390	305	630	1250
SD80	2782	2816	2664	307	630	1386

300 mm REQ'D CLEARANCE UNDER
UNIT FOR ACCESS PANEL REMOVAL

SD series DUCT FURNACE



UNIT	A	B	C	D	E
SD51	2446	1706	203	895	908
SD60	2722	1982	254	921	1046
SD70	3130	2390	305	590	1250
SD80	3404	2664	305	590	1356

SD series WEATHERPROOF DUCT FURNACE

STANDARD EQUIPMENT AND CONTROLS

Heat Exchanger - Type "E-3" Chrome Stainless Steel (1.1mm tubes; 1.27mm headers)
Draft Hood - 0.8mm Aluminized Steel
Cabinet - 1.2 and 1.0mm Cold Rolled Steel
Burners - 1.0mm Aluminized Steel with 0.4mm Type 430 Stainless Steel ribbon inserts
DU Series - Top mounting brackets fitted
SD Series - Optional legs or hangers fitted as nominated
Safety controls - Fitted and wired
All units include integral flue diverter

CONTROL SYSTEM OPTIONS

Thermocouple with standing pilot
On-Off / Hi-Lo / Modulating
Energy saving electronic Programmed ignition, including remote reset and lockout facilities

OPTIONAL FEATURES

Blowers to suit various duties
Belt guards for blower models
2-way adjustable discharge louvres
Remote control panel

AIRA PTY. LTD.
ABN 38 005 058 364

Victoria
144 Colchester Rd.
KILSYTH 3137 Australia
Tel: (03) 9728 5566
Fax: (03) 9761 4732
email: aira@aira.com.au

New South Wales
AIRA Pty. Ltd.
3/46 Seton Road.
MOOREBANK 2170
Tel: (02) 9822 8900
Fax: (02) 9822 8988

South Australia
AIRA Pty. Ltd.
2/12–14 Tikalara Street
REGENCY PARK 5010
Tel: (08) 8346 6182
Fax: (08) 8346 6129