PLANNING
RECD
ISSUED
RECD 02 JUN 2010
INIT. DATE
VALIDATION

ACCESS

Description of Works

Ductwork extraction

We have allowed for the installation of all ductwork connected to the extraction canopy in the kitchen and to run at high level then exit the building into the rear of the building. We then would run a stack up two metres and expel to atmosphere. Also we will install a extract fan complete with speed controller. We will require a fused spur single phase to be within 1 metre of the fixed position of the fan. This would need to be done by your electrician as we cannot certify the electrical work.

The canopy will be fitted with baffle filters. We now use a 50%baffle and 50% mesh filter, this has better filtration quality.
The canopy has drip trays fitted and this helps to reduce cleaning time and grease smells.

We will subject to final survey fit a bag filter that again filters out almost all grease before going to atmosphere.

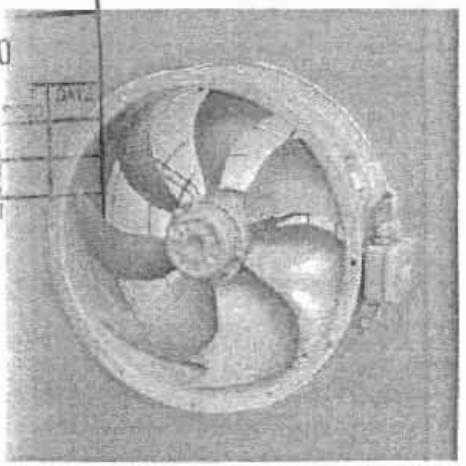
All ductwork is manufactured to DW144.

Cost would be- £3,700.00

PLANNING
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REPLIED
RECD 02 JUN 2010
DATE
FOLL ACTION

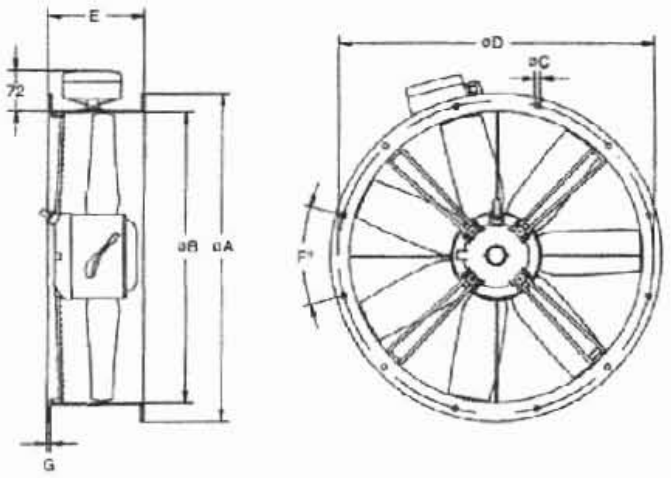
ZAC/ZSC/AR
Short cased axial fans

by Ziehl Abegg



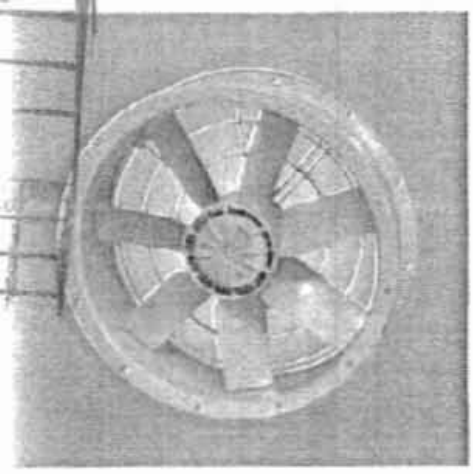
- Sickle & aerofoil bladed fans, 200mm to 630mm
- Fan - single phase, 230V - 1Ph - 50Hz
- Diecast aluminium impellers (AR type Steel)
- Insulation class 'F' IP54 (AR type IP44)
- Operating range -40°C to 70°C
- Thermal protection 'TK'
- Galv steel casing with flanges
- Corrosion resistant paint ZAC/ZSC pebble Grey, (AR type Black)
- Inlet guard
- IP54 terminal box
- Maintenance free, sealed for life bearings

Single Phase Product Code	Speed rpm	Airflow m³/sec @ Static Pressure Pa			Motor Data			Weight	dBA @	Speed Control	
		50 Pa	100 Pa	125 Pa	FLC	SC	kW	Kg	3m	Elec	Trans
AR200-E2-K	2600	0.216	0.109	0.06	0.3	0.9	0.06	2.7	45	SC 1.5	RE 1.5
AR200-E4-K	1370	0.018	-	-	0.21	0.6	0.03	2.5	41	SC 1.5	RE 1.5
AR250-E2-K	2500	0.42	0.28	0.07	0.53	1.5	0.15	3.9	60	SC 1.5	RE 1.5
AR250-E4-K	1400	0.073	-	-	0.21	0.6	0.04	3.5	44	SC 1.5	RE 1.5
AR300-E2-K	2700	0.83	0.75	0.7	1.1	3.5	0.23	5.0	63	SC 1.5	RE 1.5
AR300-E4-K	1390	0.36	-	-	0.32	1.0	0.07	4.9	49	SC 1.5	RE 1.5
ZAC315-21	2650	0.985	0.92	0.881	2.1	6.0	0.47	10.2	61	N/A	RE 3.0
ZSC315-41	1400	0.5	-	-	0.59	1.5	0.13	6.5	46	SC 1.5	RE 1.5
ZSC350-41	1400	0.739	0.52	-	0.9	2.5	0.2	7.5	49	SC 1.5	RE 1.5
ZSC400-41	1320	1.143	0.888	0.626	1.35	2.9	0.31	10.3	51	SC 3.0	RE 3.0
ZSC450-41	1310	1.805	1.509	1.31	2.8	7.0	0.61	15.8	55	SC 3.0	RE 3.0
ZSC450-61	910	0.98	-	-	0.91	2.1	0.21	14.0	48	SC 1.5	RTRE 1.5
ZSC500-41	1210	2.248	1.876	1.61	3.4	7.4	0.77	16.6	53	SC 3.0	RTRE 3.0
ZSC500-61	890	1.354	-	-	1.25	2.4	0.29	14.4	47	SC 1.5	RTRE 1.5
ZAC560-41	1300	3.338	3.027	2.875	7.5	15.0	1.6	25.0	68	N/A	RTRE 7
ZAC560-61	880	1.923	-	-	1.95	4.6	0.43	16.5	55	SC 3.0	RTRE 3.0
ZAC630-61	880	2.77	-	-	2.7	5.3	0.6	19.8	59	SC 3.0	RTRE 3.0



ZAC/ZSC
Short cased axial fans

by Ziehl Abegg



- Sickle & aerofoil bladed fans 315mm to 1000mm
- Fan - three phase, 400V - 3Ph - 50Hz
- Diecast aluminium impellers
- Insulation class 'F' IP54
- Operating range -40°C to 70°C
- Thermal protection 'TK'
- Galv steel casing with flanges
- Corrosion resistant paint ZSC/ZAC pebble grey
- Inlet guard
- IP54 terminal box
- Maintenance free, sealed for life bearings

Three Phase Product Code	Speed rpm	Airflow m³/sec @ Static Pressure Pa			Motor Data			dBA @ 3m	Speed Control Transformer
		50 Pa	100 Pa	125 Pa	FLC	SC	kW		
ZSC315-43	1410	0.504	-	-	0.29	1.0	0.12	46	RTRD 2
ZSC350-43	1360	0.71	0.472	-	0.35	1.0	0.18	48	RTRD 2
ZSC400-43*	1300	1.11	0.842	0.515	0.48	1.35	0.27	50	RTRD 2
ZSC400-63*	970	0.716	-	-	0.29	0.78	0.18	46	RTRD 2
ZSC450-43*	1340	1.867	1.577	1.4	1.15	3.7	0.61	56	RTRD 2
ZSC450-63*	1000	1.318	-	-	0.72	1.25	0.41	50	RTRD 2
ZSC500-43*	1340	2.46	2.164	1.976	1.35	4.7	0.76	56	RTRD 2
ZSC500-63*	1000	1.75	-	-	0.94	1.6	0.55	49	RTRD 2
ZAC560-43	1300	3.1	2.66	2.405	1.8	7.0	1.0	63	RTRD 4
ZAC560-63	860	1.838	-	-	0.81	1.75	0.39	55	RTRD 2
ZAC630-43	1360	4.85	4.49	4.27	3.2	14.0	1.9	70	RTRD 4
ZAC630-63	880	2.826	-	-	1.5	3.6	0.7	60	RTRD 2
ZAC710-43	1350	6.53	6.18	5.99	4.9	23.0	2.9	70	RTRD 7
ZAC710-63	890	4.11	3.29	-	1.8	6.4	0.89	62	RTRD 2
ZAC800-63	900	5.75	4.85	4.1	2.7	9.8	1.4	62	RTRD 4
ZAC800-83	680	3.82	-	-	1.8	5.5	0.72	55	RTRD 2
ZAC1000-63	935	13.33	12.71	12.35	10.5	67.0	5.5	78	Inverter
ZAC1000-83	670	8.72	7.62	6.72	4.2	13.0	2.2	66	RTRD 7

* 4 Pole fan with two speed motor. Pre-wired Delta for high speed (4 pole). Change to Star configuration for 6 pole speed.

Cased axial dimensions

Size	OA	OB	OC	OD	E	OF	G	kg
200	255	204	7	235	85	8	6	2,7
250	306	252	7	286	95	8	6	3,9
300	382	317	7	356	130	8	6	5
315	382	317	9,5	356	135	8	6	6,5
350	421	356	9,5	395	135	8	6	7,5
400	466	400	9,5	438	155	12	6	10,3
450	515	451	9,5	487	160	12	6	15,8
500	567	503	9,5	541	165	12	6	16,6
560	635	559	11,5	605	210	16	8	25
630	707	634	11,5	674	220	16	8	29
710	785	711	11,5	751	260	16	10	45
800	875	797	11,5	837	280	24	10	39
1000	1080	1001	11,5	1043	330	24	5	97

NOTE

Ancillary Packs available including:
- Mounting feet
- Flex conns
- Flanges
- Anti Vib Mounts
- Clips

Order Code:
AR ("Size") PK
e.g. AR 250 PK