AG Services UK Ltd.

Reg. Office: 4, Norman Way, Bedhampton, Havant, Hampshire, PO9 3PH

CATERING EQUIPMENT, CANOPIES, WOK COOKERS, DUCTING, FANS, EXTRACTION SYSTEMS, GAS INTERLOCKS, FANS AND DUCT CLEANING, SERVICING AND ELECTRICAL WORK

Glenn: 07775 922272 Fax: 023 9278 3763
Web: www.jagservices.co.uk
Email: jagservicesukltd@hotmail.co.uk

FTAO CHRISTIAN MUD FOODS LTD

RISK ASSESMENT FOR THE NEW KITCHEN AT ST JAMES INDUSTRIAL ESTATE CHICHESTER

THE FOOD TO BE PREPARED IS MAINLY PIE AND PASTRY ITEMS AS ALREADY BEING PREPARED AT THE EXISTING SITE IN MIDHURST

FOLLOWING CRITERIA IMPACT RISK

1/ DISPERTION DISHCHARGING 1METRE ABOVE RIDGE AT 15M/SEC GOOD SCORE 5
2/ LOCATION OF NEIGHBOURS CLOSEST NEIGHBOUR BETWEEN 20 AND 100M FROM
EXTRACTION SYSTEM MEDIUM SCORE 5
3/SIZE OF KITCHEN MEDIUM SCORE 3
4/ COOKING TYPE MAINLY PIES AND PASTRY ITEMS, WILL GO FOR HIGH BUT SHOULDNT
CAUSE ANY IMPACT ON THE NEIGHBOURHOOD SCORE 7

IMPACT RISK TOTAL SCORE FOR THIS KITCHEN IS 20 SO HIGH LEVEL OF ODOUR CONTROL REQUIRED , HAVE ALREADY PROPOSED 3 STAGE FILTRATION FINE PANEL, CP4 FIRE RATED BAG FILTER, CARBON BLOCK DWELL TIME 2-4 SECONDS

I HAVE ALREADY SUPPLIED A COVERING LETTER WITH ALLTHE RELEVANT INFO, A MAINTANANCE SCHEDULE AND ALL THE SPECIFICATION SHEETS AS REQUIRED.
ALL THE COOKING IN THE PREMISES WILL BE ELECTRIC (NO GAS)
ALL THE EXTRACTION WILL BE INTERNAL EXCEPT THE HIGH VELOCITY DISHCHARGH COWL 2 600 X600 X1000 ATTENUATORS FITTED EACH SIDE OF THE EXTRACT FAN.
FAN PROPOSED IS A HELIOS GBD EC560 3 PHASE WITH LAGGED PANELS ON INSIDE FAN BOX. (SPEC SHEET ENCLOSED)
ONCE THE ATTENUATORS ARE FITTED IT SHOULD GIVE 14DB REDUCTION ON OUTLET.

HOPE THIS HELPS REGARDS GLENN

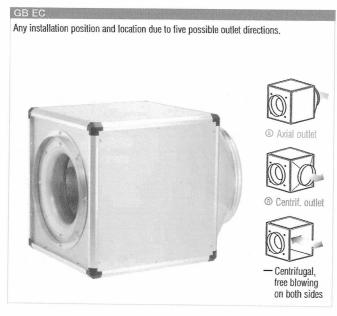
THE EFFLUX VELOCITY AIMING FOR 12-15 M/S

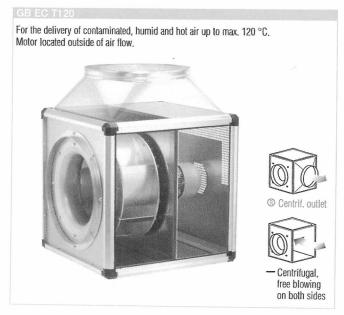


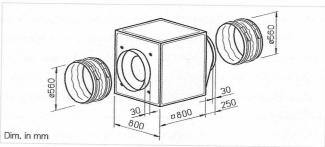
Director: Mr Glenn Archdale VAT No: 777 6461 78 Company Reg No: 04231553











Special features of the GB EC T120 series

- Designed for the delivery of contaminated, humid and hot air up to max. 120 °C, e.g. as an extract air fan in commercial kitchens and many process technology applications.
- Motor located outside of air flow.
- Thermally insulated partition between motor and impeller, made of galvanised steel sheet, with 20 mm thick, non-flammable mineral wool.
- Complete motor-impeller unit can be removed without dismantling the system components.
- Inspection cover with handle, easily removable for cleaning and maintenance.
- Condensate tray with condensate drain as standard. Hole provided for rain drain (accessories) for outdoor installation.

☐ Installation GB EC T120

Installation position with condensate drain below. Flexible installation due to three possible centrifugal outlet directions of the outlet fitting. Protected outdoor installation possible with weather protection roof and grille (accessories).

Standard terminal box (IP 54)

Signathy to the company testion

directly to the commutation electronics.

Special feature

grille (accessories).

GB EC series installation
Any installation position and
flexible installation due to five
possible outlet directions of the
outlet fitting. The wall bracket
(accessories) must be used for
wall installation. Protected outdoor installation possible with
weather protection roof and

☐ Electrical connection

Standard terminal box (IP 54) mounted to external cable.

800

30

250

Description

Dim. in mm

for both series Casing

Self-supporting frame construction made of aluminium hollow profiles. Double-walled, 20 mm thick side panels made of galvanised steel sheet, sound and heat insulated by non-flammable mineral wool lining. Nozzle on inlet side for optimal inflow as well as connectors and flexible connecting sleeve (for the respective max. permissible air flow temperature) for duct connection. Moulded part (square to round) on outlet side for low-loss outflow and flexible connecting sleeve to prevent structure-borne noise transmission. Simple positioning with crane hook as standard.

☐ Impeller

Free-running high performance centrifugal impeller made of aluminium, directly driven. Energy-efficient with low noise emission. Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 6.3.

Rain dra

□ Drive

Energy-saving, speed-controllable EC external rotor motor in protection category IP 54 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

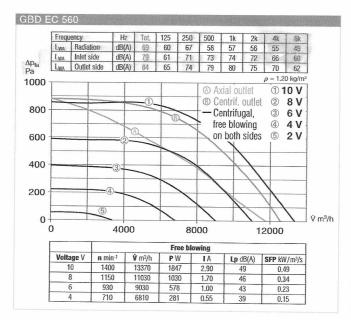
☐ Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Type R	ef. no.	Connection Ø	Flow rate free blowing	Rated speed	Case-radiated sound pressure	Power consumption	Current consump- tion	Wiring diagram	Max.air flow temperature		contro	Universal control system		Speed pot Flush-mounted		tentiometer Surface-mounted	
		mm	V m³/h	min ⁻¹	dB(A) at 4 m	kW	Α	No.	+°C	kg	Туре	Ref. no.	Tyrno	Ref. no.	Tuna	Def	
Three-phase curre	nt, 3~,	400 V, 50/6	0 Hz, EC m	otor, prote	ction categor	IP 54				ng	type	1101, 110.	Type	Nei. 110.	Type	Ref. no.	
	05814	560	13367	1400	49	2.80	4.30	976	50	83.0	FIIR EC	1) 2) 01347	DH 241)	01720	PA 24 ¹⁾	04707	
Three-phase curre	nt, 3~,	400 V, 50/6	O Hz, EC m	otor, prote	ction category	IP 54				00.0	LUII LU	01347	FU 24	01/30	PA 24"	01737	
GBD EC 560 T120	06481	560	12100	1400	53	2.30	3.60	1214.1	120	102.0	FUR FC	1)2) 01347	PU 10 ¹⁾	01724	PA 10 ¹⁾	01735	
1) Multiple EC fans can	normal	ly be connec	ted.	2) Alternat	ive electronic di	ff. pressure/to	emperature co	ntroller (EDR						J/SA No. (74266/042	01735 67)	







Power control

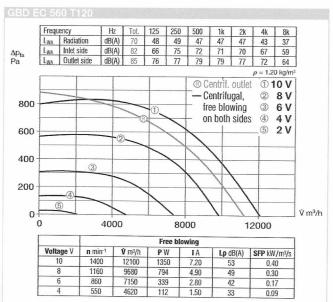
example.

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the characteristic curve as an

Noise

The total level and range are specified above the performance diagram for:

- Radiated sound power
- Inlet side sound power
- Outlet side sound power. The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and the table below the characteristic curve.



Accessories for both series

Vibration dampers for indoor installation. 1 set = 4 pcs.

Ref. no. 05627

Wall bracket for wall installation. GB-WK 560

Ref. no. 05626

Weather protection grille for outlet-side coverage.

GB-WSG 560

Ref. no. 05640 Weather protection roof for pro-

tected outdoor installation. **GB-WSD 560**

Ref. no. 05749

Special accessories

☐ for GB EC series Condensate tray with drain connectors (central) for duct/hose

connection.

GB-KW 560 Ref. no. 05645 (a condensate tray with condensate drain is included in delivery for

GB EC T120).

☐ for GB EC T120 series

Rain drain for outdoor installation (Hole in casing base already provided).

GB-RA

Ref. no. 09418



References	Page
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Accessory details	Page
Universal control system electronic controllers,	,
speed potentiometer	585 ff.