



Unit 13, Springvale Industrial Estate, Cwmbran, South Wales NP44 5AZ

Tel / Fax: 01633 875895 **Email:** info@blackburnfryingranges.co.uk

Standard fan extraction system used in conjunction with 'BLACKBURN' fish frying ranges

The extract system for 'BLACKBURN' fish frying ranges is based on the need to maintain a free air movement and minimise any potential blockages which are inherently a fire hazard. Safety is maintained via an air proving system and flame failure mechanism.

Each range is supplied with a fan unit which extracts through an internal back duct the waste gases, steam and fat. The back duct is manufactured with two chambers which prevent the hot waste gases from mixing with the steam and fat prior to the ensuing collection at the sump which is sited before the fan unit. The hot waste gases and steam are drawn through to atmosphere via 250mm. ducting one metre above eaves level and terminated with a standard weather cowl.

- ◆ 0.9mm.galvinised steel ducting.
- ◆ Finished to one metre above eaves level.
- ◆ Weatherproof cowl fitted.
- ◆ Sump to collect waste oil before extract, manufactured from 1.6mm mild steel.
- ◆ Fan motor 0.75KW. T.E.F.C. mounted on anti vibration pads.
- ◆ Usually any noise emitted is that of air movement only and is acceptable.
- ◆ Choice of weather cowls – inverted (to reduce downwash) or venturi spigot to boost the dispersal of the steam and waste gases to atmosphere.



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Technical information relating to standard fan extract systems of 'BLACKBURN' fish frying ranges.

- 1 Motor brand – Brooks Crompton now manufactured under license in India.
- 2 Size of motor – 0.55KW., 0.75HP, 1420rpm. Cap start.
- 3 Type of motor – Foot mounted T.E.F.C.
- 4 Sound decibels – At the time of writing this is unknown by our suppliers but information will follow once received from the manufacturers. However, suffice to say that the motor emits only a very low level hum at any time.
- 5 Size of ducting – 250mm. dia.
- 6 Height of discharge – 1 metre above eaves level in accordance with building regulations. The ducting is bracketed every metre. Either an all weather cowl, (advised) or venture spigot is fitted at final exit point.
- 7 The motor is mounted on four anti vibration mounts to the standard as follows :
 - a) Dia. 38mm. Height 38mm.
 - b) Material – Natural rubber.
 - c) Operating temperature -25°C +70°C.
 - d) Hardness – 60ShoreA.
- 8 The mounts are fitted on the motor plate thus separating the motor from the main module.
- 9 The entire fan unit is foot mounted and the encompassing flanges, lined with shock absorbing rubber, are bolted to the ground to prevent any latent vibration. Therefore, as the whole unit is stable the potential for vibration is limited.
- 10 Silencers are not required as the main noise component is air movement.
- 11 The cleaning/maintenance schedule is a yearly contract with the range manufacturers being responsible for the range maintenance and professional duct cleaners responsible for the ducting system. Monthly the sump should be cleared of any waste oil collection.



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