

Specs: (thanks to Cgwynne:

<http://www.hukyforum.com/index.php/topic,407.0.html>)

Drum:

6.5 “ L x 5” W

2.5mm 304 stainless steel diameter 130mm

Batch capacity: 150-560g

(would be good to calculate thermal physics heat transfer equation if considering “Henry Chang Challenge” or BTU input vs BTU exhausted)

Motor:

RB400100-06202R. (72 rpm)

RB400150-06202R. (48 rpm)

Fan:

220-240 VAC market model:

Profantec 172mm x 150mm x 38 mm (6x1.5” Fan) = 230 CFM or 390 m3/h

Model: P2173HBT-ETS

RPM:2700/3200 (50/60hz)

CFM: 205/230 (50/60hz)

110-120 VAC market model:

Profantec 172mm x 150mm x 38 mm (6x1.5” Fan) = 230 CFM or 390 m3/h

Model: P1173HBT-ET

RPM:2700/3200 (50/60hz)

CFM: 205/230 (50/60hz)

Website:

http://www.profantec.com.tw/style/frame/templates1/product_detail.asp?lang=2&customer_id=1857&name_id=70043&content_set=color_3&rid=30656&id=157454

Anemometer readings:

VAC M/S Percent

0	0	0%
25	0	0%
50	0	0%
75	1.3	15%
100	3.4	40%
125	5.4	64%
150	6.8	81%
175	7.6	90%
200	8	95%
225	8.2	98%
250	8.4	100%

I'm not sure how to convert the anemometers meters per second reading (through the 2.5" pipe) into CFM but will look it up. Any pointers would be helpful.

Note: 8.4 m/s is far lower than reported by users who run a 120V stock fan

100-120VAC market model:

(I dont know, please help me fill this out by looking at the model number on your fan hub)

From Hankua and SusanJoM's anemometer reading's it seems like it pulls more CFM than the 220V model which may be better at dealing with all the BTU's the stock stove can put out)

HUKY "Stock" IR burner:

possible manufacturer JIH Long (model JL-100)

website: <http://en.jihlong.com/html-en/product-VmEQuvnTtxzp-Mini+Single+Burner.html>

11.5BTU or 3.5KW/h

(not confirmed)

Spec:L240*W290*H110*ø132 (mm)

N.W:1.58kg

Switch:Throttle

Gas:LPG or LNG

Burner:ø110(mm)Cermic Burner

Needle Valve:

Jyin Shi (model nor specs known)

Propane gas regulator:

Yung Shen model 888-A

Inlet Pressure: 0.7 ~ 15.6 kg/cm² (0.07-1.56Mpa)

Outlet Pressure: 500 mmH₂O (apr. 5kPa)

Flow Capacity: 1.5 kg/hr (71400 BTU/hr)

Inlet diameter : W22.5-14-L or 7/8"-14UNF-L

Outlet diameter : 12mm

Website: <http://www.ysgas.com/prode.htm>

Replacement fans:

Any 172x150x38mm DC fan will be a better substitute for the AC fans included stock. DC fans inherently allow you to vary and control the speed. AC fans really are only for a single fixed speed, a dimmer is a bad thing to do to an AC motor (notice the humming?), and a VARIAC is not that great of a solution either often with 0 RPM's until above 50% power and a non-linear progression from there.

Here is a Taiwanese DC fan replacement (with metal blades)

http://www.sinwan.com/sinwan_web/main/en/dc_spec.asp?Type=Axial_Metal_DC&Series=MD173AP&SID=99000