HOOD INFORMATION TABLE

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS: EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR: QTY.	LENGTH	WIDTH	GREASE EXTRACTOR: QTY.	SIZE: L	H	TYPE	HOOD CONSTRUCTION	HOOD WEIGHT (LBS)
1–06	KVE	1890	.20"	.31"	1	13"	12"	6	20"	13"	KSA	ALL 18GA. 304 S.S.	919
								–	11"	13"			

TOTAL EXH. CFM = 1890

HOOD CALCULATIONS – 710 WILSHIRE 1–06

ETL LISTING = 3085193CLE–002

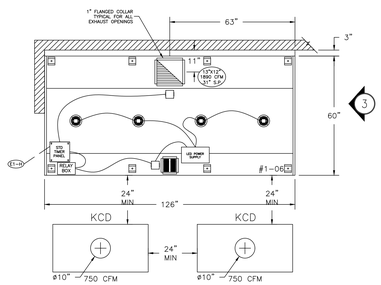
FOR CANOPY STYLE, SINGLE, REAR–BANK FILTER HOODS

400' COOKING EQUIPMENT = 118 CFM / LIN. FT. OF HOOD MIN.

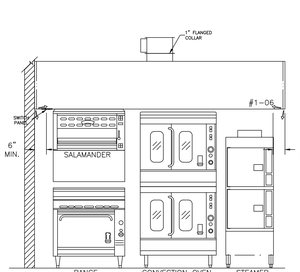
10'–6" OF HOOD X 118 CFM / LIN. FT. OF HOOD MIN. = 1239 CFM EXHAUST MIN.
ACTUAL EXHAUST CFM = 1890 CFM
14" X 12" EXHAUST RISER = 156 SQ. IN. / 144 = 1.08 SQ. FT.
CFM EXHAUST / 1.08 SQ. FT. = 1750 FPM

NOTE:
HOOD TO BE LISTED AND LABELED FOR 0" CLEARANCE.

REMOTE MOUNTED:
(1) REGULATED RELEASE (WITH ONE TANK)

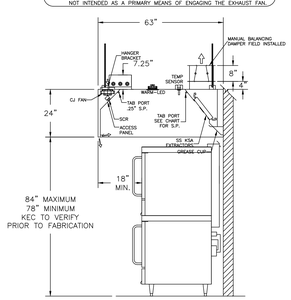


1 ITEM # 1–06
PLAN VIEW



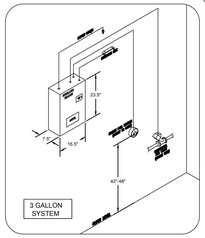
2 ITEM # 1–06
ELEVATION VIEW

NOTE
T–STAT IS FACTORY PRE–SET FOR 95 DEGREES, IF SPACE CONDITIONS EXCEED 95 DEGREES WITHOUT COOKING TAKING PLACE, THEN A FIELD ADJUSTMENT OF THE T–STAT WILL BE REQUIRED BY PERSONNEL OTHER THAN HALTON. T–STAT IS A SAFETY INTERLOCK ONLY. IT IS NOT INTENDED AS A PRIMARY MEANS OF ENGAGING THE EXHAUST FAN.



3 ITEM # 1–06
SECTION VIEW

1) ANSUL R–102 FIRE SYSTEM
2) ONE TANK SYSTEM (3 GALLON)
3) 3/8" BLACK IRON PIPING (CONCEALED)
3/8" S.S. APPLIANCE DROPS (EXPOSED)
4) MECHANICAL GAS VALVE = (ADVISE SIZE)

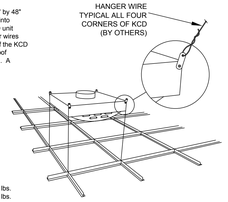


ELECTRICAL CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1–H	120V, 15 AMP – HOOD LIGHT POWER – 3 WIRES	BUILDING SOURCE	HOOD #1–06
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–

KCD DIFFUSER SUPPORT DETAIL

The KCD is a 24" by 24" or 24" by 48" ceiling diffuser which will drop into ceiling grid systems. The KCD unit should be supported by hanger wires connected to all four corners of the KCD and fastened securely to the roof structure above the ceiling grid. A minimum of 12 guage hanger wire should be used.

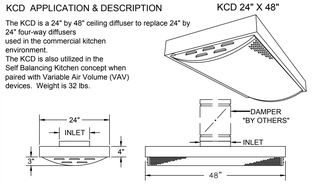


Weight of 24" X 24" KCD is 20 lbs.
Weight of 24" X 48" KCD is 32 lbs.

KCD APPLICATION & DESCRIPTION

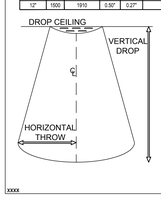
KCD 24" X 48"

The KCD is a 24" by 48" ceiling diffuser to replace 24" by 24" four-way diffusers used in the commercial kitchen environment.
The KCD is also utilized in the Self Balancing Kitchen concept when paired with Variable Air Volume (VAV) devices. Weight is 32 lbs.



INLET DIA.	CFM	NECK VEL (FPM)	Pstat "w.c.	Pstatic "w.c.	NC (Noise Criteria)	HORIZ THROW FT (100-75-50 FPM)	VERT. THROW FT (100-75-50 FPM)
8"	500	1432	0.28"	0.15"	36	*-*-*	0.3-0.5-1.0
10"	750	1375	0.28"	0.14"	35	*-*-*-17	0.8-1.2-6.5
10"	1000	1833	0.46"	0.25"	41	*-*-13-2.5	1.0-3.5-7.5
12"	1250	1592	0.35"	0.19"	38	1-2.2-12	2.3-7.4-12.0
12"	1500	1910	0.50"	0.27"	42	1.5-2.5-14	7.0-8.0-12.0

DROP CEILING



PROJECT: 710 WILSHIRE
LOCATION: LOS ANGELES, CA
SUBMITTED BY: HALTON
DATE: ____
DRAWING # U16-325
NOTES:

INLET DIA	CFM	QTY	COLOR	ZONE
10"	750	2	TBD	-

Halton

XXXX

GENERAL SPECIFICATIONS

1– HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.

2– HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE–002

3– ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.

4– THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.

5– ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.

6– CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.

7– FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

INSTALLATION REQUIREMENTS

KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS

1– PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.

2– DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.

3– FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.

4– THE K.E.C MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.

5– IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION, SET–TO, MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

6– IF HALTON MODEL KVL BACKSHELF STYLE HOODS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THE INSTALLATION OF THE CAPTURE–JET FAN.

ELECTRICAL CONTRACTOR'S REQUIREMENTS

1– PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

TITLE 24 Standard Table 140.5A and ASHRAE 90.1 COMPLIANT

NOTE

THE HOODS SHOWN ON THIS DRAWING ARE DESIGNED AS THOUGH ONE EXHAUST FAN WILL BE USED FOR HOOD 1–06. ONE TIMER PANEL IS REQUIRED PER EXHAUST FAN. IT IS THE RESPONSIBILITY OF THE F.S.E.C TO INFORM HALTON OF THE NUMBER OF EXHAUST FANS BEING UTILIZED ON THIS PROJECT.

ELECTRICAL EQUIPMENT REQUIREMENTS

FLUORESCENT LIGHT FIXTURE 40 WATT MAX BULB= .67 AMP EA.

RECESSED INCANDESCENT LIGHT FIXTURE 150 WATT MAX BULB= 1.25 AMP EA.

GLOBE INCANDESCENT LIGHT FIXTURE 100 WATT MAX BULB= .83 AMP EA.

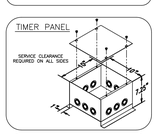
LED LIGHT FIXTURES= .30 AMP EA.

CAPTURE JET FAN= .72 AMP EA

ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP

LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS

TIMER PANEL

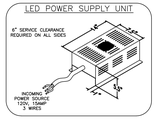


CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.: _____

LED POWER SUPPLY UNIT



PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE SPECIFYING CONSULTANT TEN (10) DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE EXTRACTOR PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONVECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

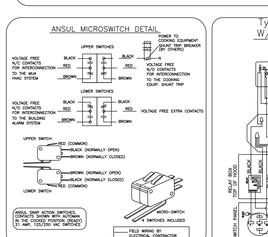
EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE "TEST METHOD TO DETERMINE STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE "TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT." DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

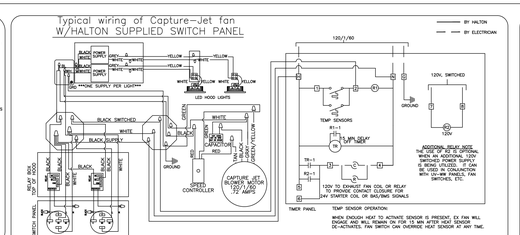
MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS AND SUPPLY AIR TEMPERATURES. IF ANY EXIST, (AS SEE HOOD SUBMITTAL DRAWINGS FOR EXTRACTION QUANTITY FLOW CURVES). CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

ANY CHANGES IN THE SPECIFIED SIZING OF POWER WIRING, FAN SIZE, HORSEPOWER REQUIREMENTS, OR GAS LINES DUE TO THE USE OF ANY SYSTEM OTHER THAN THE ONE SPECIFIED ARE THE RESPONSIBILITY OF THE ALTERNATE HOOD MANUFACTURER, AND MUST BE COORDINATED BY THE HOOD MANUFACTURER AND CONTRACTORS INVOLVED.

ANSUL MICROSWITCH DETAIL

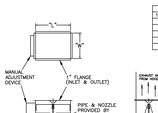


Typical wiring of Capture–Jet fan W/HALTON SUPPLIED SWITCH PANEL



EXHAUST VOLUME DAMPER

MODEL: MBD (Manual Balancing Damper)



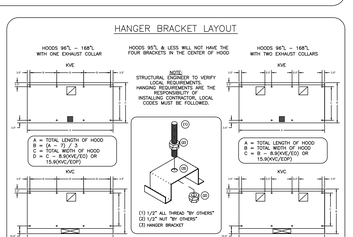
TAG	"A"	"B"	QUANTITY	CONSTRUCTION*
1–06	13"	12"	1	304 S.S.
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–

GENERAL NOTES

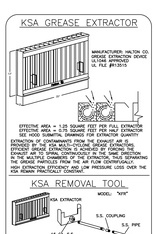
FIELD NOTES:
* CONSTRUCTION OF DAMPER MUST MATCH THE CONSTRUCTION OF THE DUCTWORK FOR THAT SYSTEM.
* DAMPER SHOULD LOCK.
* DAMPER SHAFT MUST BE ABLE TO HOLD EXHAUST DUCTWORK.
* FLANGE FIELD CONNECTION MUST BE ABLE TO HOLD EXHAUST DUCTWORK.
* DAMPER MUST BE ABLE TO HOLD ITS POSITION.
* CONNECTIONS TO MAY BE WITHOUT REINFORCEMENT.
* DAMPER MUST BE ABLE TO OPERATE WITHIN ONLY CARBON DEGREES WHEN SLOPED.

FACTORY NOTES:
* CONSTRUCTION OF DAMPER MUST MATCH THE CONSTRUCTION OF THE CORRESPONDING HOOD.

HANGER BRACKET LAYOUT



KSA GREASE EXTRACTOR



KSA REMOVAL TOOL

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (CANADA)
1021 BREWIK PLACE
MISSISSAUGA, ON L4W 3R7
1–905–624–0301

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1–270–237–5600

WEBSITE: WWW.HALTONCOMPANY.COM

REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES REQUIRED.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: CLEAN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OF EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR AND RECALCULATED EXHAUST AIRFLOW MAY BE REQUIRED.

☐ REVISE AND RESUBMIT
APPROVED FOR FABRICATION
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED
APPROVED BY ____ DATE ____

PROJECT: 710 WILSHIRE
LOCATION: LOS ANGELES, CA
DRAWN BY: CG DATE: 05.19.16
SCALE: NOT TO SCALE
CONSULTANT: KITCHEN PROS

Halton

DRAWING TITLE: HOOD DETAILS
DRAWING No.: U16–325
REV. NO.: 0 SHEET NO.: 2 of 4

REVISIONS

BY	DATE	DESCRIPTION
–	01/07/2016	Milestone 01
–	01/04/2016	Milestone 02
–	01/04/2016	Milestone 03
–	01/27/2016	Milestone 04
–	01/27/2016	Milestone 05

hla howard laks architects
1545 twelfth street santa monica, ca 90401
voice : 310–393–4455 fax : 310–393–2230

CONSULTANTS

Kitchen Professionals
16742 Gothard Street, Suite 103
Huntington Beach, CA 92647
Phone: 714-841-0331 Fax: 714-841-9986

710 WILSHIRE BOULEVARD
MIXED-USE HOTEL PROJECT
SANTA MONICA - CALIFORNIA 90401
BANQUET KITCHEN EXHAUST DATA

DRAWN: JL
CHECKED: CH
APPROVED: –
SCALE: 1/2" = 1'–0"
SHEET: K-1.6.4
DATE: June 25, 2013
PROJECT NUMBER: HLA 0000000–00000