

GAS/ELECTRIC ROOFTOP UNIT SCHEDULE

ID	Mfr	Model	Nom Tons	Tot Clg MBH	Sens Clg MBH	ARI (SEER)	Heating MBH4n	Heating Eff	Heating Stages	Supply CFM	ESP	OA cfm	Wt(lbs)	Dimensions
RTU-2	Carrier	48HCR036	5	60.4	37.3	15.0	115	82%	2	2000	0.50"	300	300	74" x 47" x 42" h
RTU-3	Carrier	48HCSA04	3	36.5	26.5	15.0	72	82%	2	1200	0.50"	120	75	74" x 47" x 34" h
RTU-4	Carrier	48HCSA04	3	36.5	26.5	15.0	72	82%	2	1400	0.50"	100	75	74" x 47" x 34" h

ID	Volt/Ph	Fan Motor	Drive	KW	MCA	MOP	Refrig	Accessories	Serves
RTU-2	208/3	2.40Hp	Belt	4.6	29A	40A	R-410A	1,2,3,4,5,6	Back Areas
RTU-3	208/3	1.70Hp	Belt	2.9	20 A	25 A	R-410A	1,2,4,5,6	Offices
RTU-4	208/3	1.70Hp	Belt	2.9	20 A	25 A	R-410A	1,2,4,5,6	Vestibule

- Notes (all units)**
1. Install level on MFRs insulated 16" R190 RSH horizontal rated roof curb. Verify roof slope in field.
 2. Provide and install pre-installed disposable MERV-5 filters, change filters prior to turnover to Lucky's Market.
 3. All outside air dampers shall fully close in unoccupied mode.
 4. Units come with temporary thermostat control for initial startup and operation. MC shall remove and connect to CPC Einstein under the direction of the refrigeration controls contractor.
- Accessories**
1. Provide with manufacturer's OA hood and 2-position motorized damper.
 2. Provide with protection.
 3. Hot gas return demineralization system and space humidity sensor.
 4. Drain pan overflow switch.
 5. Stainless steel heat exchanger and coated coils for a coastal application.
 6. Hinged access panels.

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INTAKE HOOD SCHEDULE

ID	Type	Mfr	Model	CFM	Max PD	Throat Wt(lbs)	Throat Length	Hood Width	Hood Length	Hood Height	Wt(lbs)	Serves
IH-1	Intake	Captive Air	H22K28SHHCA	4300	0.05"	22"	22"	39"	39"	11"	114 lbs	Rack Room

- Notes**
1. Install level on mfr's 16" R190 RSH horizontal rated roof curb. Verify roof slope in field.
 2. Provide and install 120V motorized damper in duct within below roof/pans. Interlock damper to fully open whenever fan is energized.
 3. Provide and install burglar bars at roof opening for IH-1.

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PADDLE FAN SCHEDULE

ID	Mfr	Model	Qty	Type	Drive	CFM	Volt/Ph	RPM	Watts	Serves	Notes
PF-1	Leading Edge	48201	4	Suspended	Direct	21500	120/1	320	86	Back Areas	1,2

- Notes**
1. Fans shall be wired to run continuously.
 2. Install on the underside of structure.
 3. Coordinate color with Lucky's prior to purchase.

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EXHAUST AND SUPPLY FAN SCHEDULE

ID	Mfr	Type	Model	CFM	ESP	Drive	Fan RPM	Sound	Motor	Volt/Ph	Dimensions	Roof Opening Wt(lbs)	Serves	Notes
EF-1	Captive Air	Roof Mounted	DU249FA	4850	1.50"	Direct	900	17.1	5 Hp	208/3	44" dia x 36" h	31" sq	Main Cookline	1,3,8,10
EF-2	Captive Air	Roof Mounted	DUB9FA	1700	1.10"	Direct	1536	18.2	3/4 Hp	120/1	32" dia x 31" h	23" sq	Pizza Oven	1,2,3,8,10
EF-3	Captive Air	Roof Mounted	DUB9FA	1100	1.20"	Direct	1213	12.7	3/4 Hp	120/1	32" dia x 31" h	23" sq	Smoker	1,3,8,10
EF-4	Captive Air	Roof Mounted	DU309FA	600	0.66"	Direct	1373	9.8	3/4 Hp	120/1	28" dia x 26" h	19" sq	Ramen	1,2,17
EF-5	Captive Air	Roof Mounted	DU309FA	875	0.25"	Direct	1411	10.3	1/4 Hp	120/1	28" dia x 26" h	19" sq	Dishwasher	1,2,12
EF-6	Captive Air	Roof Mounted	DUB9FA	550	1"	Direct	1485	11.5	1/2 Hp	120/1	28" dia x 26" h	19" sq	Bakery Oven	1,2,9,7
EF-7	Captive Air	Roof Mounted	DR12IFA	375	0.25"	Direct	1103	5.1	1/4 Hp	120/1	24" dia x 17" h	17" sq	Restrooms	1,2,3,4,5
EF-8	Captive Air	Roof Mounted	QD20FA	4300	0.25"	Belt	978	18.2	1-1/2 Hp	208/3	38" dia x 33" h	24" sq	Motor Room	1,3,5,9,11
MUA-1	Captive Air	Roof mounted	A2-D-1500-2HD-MPU	4356	0.50"	Direct	1770	19.3	5 Hp	208/3	203" x 50" x 71" h	23" x 18"	Main Cookline	1,3,8,10,14
MUA-2	Captive Air	Roof mounted	A1-D-250-1SD-MPU	1360	0.50"	Direct	1873	15.1	1 Hp	208/3	170" x 40" x 64" h	23" x 18"	Pizza Hood	1,3,10,14,15
MUA-3	Captive Air	Roof mounted	A1-D-250-1SD-MPU	1100	0.50"	Direct	1471	12.1	1 Hp	208/3	170" x 40" x 64" h	23" x 18"	Smoker Hood	1,3,10,14,18

- Notes**
1. Install fan level on 16" (20% for EF-1,2,3) insulated hurricane rated roof curb. Verify roof slope in field.
 2. With factory installed and wired speed controller.
 3. With factory installed and wired disconnect switch.
 4. Fan shall run continuously during occupied hours and shall de-energize in unoccupied hours.
 5. Provide and install gravity backdraft damper at curb.
 6. Direct fired natural gas (775 MBH input) make-up air unit with DX cooling with coated coils for a coastal application.
 7. Interlock with bakery oven operation.
 8. Fan shall be UL 782 listed.
 9. Provide and install burglar bars at roof opening.
 10. Fan shall be controlled via heat sensor in accordance with FBCM 507.2.1.1.
 11. Provide with pre-vent disconnect switch.
 12. Provide and install a stainless steel backdraft damper at curb. Fan shall be interlocked with dishwasher.
 13. Provide and install a stainless steel backdraft damper at curb.
 14. Fan shall come with motorized damper that shall fully close when fan is energized.
 15. Direct fired natural gas (52 MBH input) make-up air unit with DX cooling and coated coils for a coastal application.
 16. Direct fired natural gas (42 MBH input) make-up air unit with DX cooling and coated coils for a coastal application.

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ETR SALES FLOOR ROOFTOP UNIT SCHEDULE

ID	Mfr	Model	Type	No./Size	SUPPLY FAN				COOLING SECTION				HEAT RECLAIM (MED TEMP RACK B)				COMPRESSORS							
					Supply CFM	OA CFM	TSP in. w.c.	ESP in. w.c.	FRPM	BHP	Hp	Tot Cap MBH	Lat Cap MBH	Outdoors db/wb	Indoors db/wb	Unit LAT db/wb	Coll Cap MBH	Face Area sq.ft.	Refrig lb/hr	Max PD psi	Rows/FPI	Quan	Type	
ETR RTU-1	Carrier	14HKB7-0589-TN6.0-12HR	A1-SWS1-PLNUM	1/35.43"	12000	4500	4.40"	2.00"	1052	13.1	15.0	692.1	294.0	947/775	75.0°F/62.5°F	55.9°F/51.0°F	437.1	13.7	R448A	9489	4.0	4/10	4	Scroll

ID	Volt/Ph	MCA	MOP	KW	GAS HEAT		Refrig	ESR	Wt (lbs)	Cabinet Dimension	FILTERS	
					MBH-in	MBH-out					Type	No./Size FPM
ETR RTU-1	208/3	318 A	350 A	67.5 KW	400	320	3	R410A	12000	96" x 44" x 60" h	2" pleated	6/16" x 20" / 6/16" x 25"

- Notes**
1. Verify existing unit is level on mfr's 16" existing roof curb.
 2. Verify condition of existing factory installed 2-position motorized outside air damper. Damper shall close in unoccupied mode. Any installed economizer controls shall be omitted per IECC 303.3.1 Exception 2 (open case refrigeration).
 3. Verify condition of existing factory installed disconnect switch and report problems to LHM.
 4. Unit shall be controlled via store CPC system. Provide and install all required D/V control boards.
 5. HR coil pressure drop limit shall be at full flow of Rack B refrigerant (summer time condition).
 6. Existing unit shall be equipped with relocated mfr's smoke detector in return duct. Verify operation in field and report problems to LHM.
 7. Existing unit has coated coils for a coastal application. Verify condition report problems to LHM.

AIR DOOR SCHEDULE

ID	Mfr	Model	Qty	Type	Motor (hp)	CFM	Volt/Ph	KW	Dimensions	Approx Mtg Height	Wt(lbs)	Serves	Notes
AD-1	Berner	ICG12-3144NY	1	Anti-Sneeze	1/2	4702	208/1	1.58	147" x 18" x 15" h	10'0" AFF	325	Sales Roll-Up Door	1,2,3,4

- Notes**
1. Install above door opening. Coordinate exact mounting method and mounting height with door type prior to ordering equipment.
 2. Mounting height listed above is net height above floor.
 3. Unit shall be capable of being balanced to wall with support brackets.
 4. Provide with factory mounted single phase motor control panel, disconnect, and 24V controls.
 5. Control via plunger type door switch for each door.
 6. Provide with mfr's debris control package.

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DIFFUSER & GRILLE SCHEDULE

ID	Type	Mfr	Model	Description	Overall	Neck	CFM	NC max	Mounting	Material	DR	TR	FD	Notes
CD-A	S	Krueger	5SHPCR	Louvered, Removable Core	24 x 24	12"	350-430	25	T-bar lay-in	Aluminum	YES	YES	NO	2,4
CD-B	S	Krueger	5SHPCR	Louvered, Removable Core	24 x 24	10"	250-345	25	T-bar lay-in	Aluminum	YES	YES	NO	2,4
CD-C	S	Krueger	5SHPCR	Louvered, Removable Core	24 x 24	9"	50-110	25	T-bar lay-in	Aluminum	YES	YES	NO	2,4
CD-D	S	Krueger	5SHPCR	Louvered, Removable Core	24 x 24	8"	125-215	25	T-bar lay-in	Aluminum	YES	YES	NO	2,4
CD-E	S	Krueger	5SHPCR	Louvered, Removable Core	12 x 12	4"	0-50	25	T-bar lay-in	Aluminum	YES	YES	NO	2,4
CGA	E	Krueger	56400	Perforated Face	24 x 24	8"	125-215	30	T-bar lay-in	Aluminum	YES	YES	NO	4
SDR-A	S	Krueger	DPL	Drum Louver	14 x 8	12 x 8	245-320	28	Exposed Duct	Aluminum	NO	NO	NO	2
HSR-A	S	Krueger	5685	Louvered, Double Deflection, 1/2" spacing	12 x 8	10 x 6	9-300	28	Exposed Duct	Aluminum	YES	NO	NO	1
HSGA	R	Krueger	55480	Louvered, 1/2" spacing, 0 deg deflec.	38 x 14	38 x 12	125-215	28	Exposed Duct	Aluminum	NO	NO	NO	1

- Abbreviations**
- DR - Opposed blade volume damper
 - TR - Square to round neck transition
 - FD - Filter damper assembly with rotation blanket
 - S - Supply
 - R - Return
- Notes**
1. Finish coat, paint in field, coordinate color with architect and GC.
 2. High velocity pattern in field that registers and not slow into refrigerated cases, exhaust hoods or other equipment shall be avoided. Direct flow registers shall be installed to swing down. Direct flow registers shall be installed to swing down. Install manufacturer kit when laser grille installed in hard ceiling.

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AIR BALANCE

Unit	Serves	Outside	Return	Supply	Exhaust	Pressure	Notes
MUA-1	Restroom	4500	7500	12000	4500		
MUA-2	Back Area	300	1700	2000	300		
MUA-3	Offices	120	680	1000	120		
MUA-4	Vestibule	100	1300	1400	100		
MUA-1	Main Cookline	4356			4356		
MUA-2	Pizza Hood	1360			1360		
MUA-3	Smoker	1100			1100		
EF-1	Main Cookline		4880		4880		
EF-2	Pizza Oven		1700		1700		
EF-3	Smoker		1100		1100		
EF-4	Ramen		600		600		
EF-5	Dishwasher		875		875		
EF-6	Bakery Oven		530		530		
EF-7	Restrooms		375		375		
EF-8	Rack Room	4300			4300		
TOTAL		16136	14160	1976			

- Notes**
1. Makeup air via rooftop intake hood.

DUCTLESS SPLIT SYSTEM SCHEDULE

System	Mfr	Type	Tons	CLG MBH	SEER	Refrig	Accessories	Serves
1	Mitsubishi	Cooling Only, Variable Capacity	1-1/2	8.0-18.0	15.5	R-410A	1,2	IT Room

INDOOR UNIT			
ID	Model	Dimensions	CFM
FC-1	PKA-A 58H4A	36" x 10" x 12" h	30

OUTDOOR UNIT			
ID	Model	Dimensions	Wt(lbs)
DS-1	PUY-A18H4A	32" x 12" x 24" h	28

- Notes (all units UOIN)**
1. Install outdoor unit level on roof pad.
 2. Provide and install refrigerant line sets sized per manufacturer's installation instructions. Exterior insulation on refrigerant lines shall be covered with UV resistant PVC jackets.
 3. Indoor unit wired from outdoor unit by EIC.

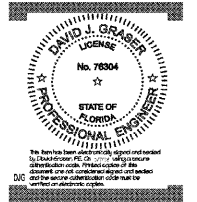
- Accessories**
1. Provide and install the mfr's programmable controller, MFK1.
 2. Condensate overflow switch to alert crew unit in the event of primary drain pan overflow.
 3. Outdoor unit shall have mfr's treated coils for a coastal application.

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Lucky's Market

LUCKY'S MARKET
6420 NAPLES BLVD.
NAPLES, FLA. 34109



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Order Plans

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