Installation, Start Up and Pre-Commissioning Checklist

= Responsible Party

Initial When Completed

Standard Unit	eFlex	Reference #	PROCESS	GC - General Contractor	EC - Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency	Remarks
		1	**Package Units**						
X	X	2	Reference and abide to all instructions in manufacturers Installation, Startup, Operation and Maintenance literature						
X	X	3	Units are set level						
X	X	4	Unit and plenums align to each other						
X	X	5	Units and plenums are properly sealed to each other						
X	X	6	All loose shipped components are relocated and installed per manufacturers instructions						
X	X	7	a) economizer eyebrow, skirts and mist eliminator installed						
X	X	8	b) economizer dampers and linkage installed and operable						
X	X	9	c) economizer wiring connected and completed						
X	X	10	d) relief damper or power exhauster installed and operable						
X	X	11	e) smoke detectors and sample tubes relocated and installed per manufacurers instructions						
X	X	12	Utilities are installed and ON to the units						
X	X	13	a) power on and breakers sized to unit rating						
X	X	14	b) phases correct						
X	X	15	c) gas on						
X	X	16	d) gas gooseneck or pipe capacity meets or exceeds unit capacity						
X	X	17	e) condensate line is piped per plan						
X	X	18	f) condensate vent is on leaving side of trap						
	X	19	Discharge Temperature Limit potentiometer is set to the 9 o'clock position						
X	X	20	No thermostat, smoke detector, remote enunciator or any other wiring runs though the plenums						
X	X	21	Manufacturers start up procedure has been followed and all units evaporator fan operates through all fan stages per manufacturers						
X	X	22	Manufacturers start up procedure has been followed and all units cycle through all heating stages per manufacturers instructions						
X	X	23	Manufacturers start up procedure has been followed and all units cycle through all cooling stages per manufacturers instructions						
X	X	24	Manufacturers start up procedure has been followed and all units cycle through all economizer stages per manufacturers instructions						
		25							
		26							
		27							
		28	**Ductwork**						
X	X	29	All ductwork and registers are installed per plan						
X	X	30	All starters and or take offs are radiused per plan.						
X	X	31	Ductwork from the exhaust register over production line to EF-2 fan base is 100% rigid per plan						
X	X	32	Balance dampers are in sleeves on axles with locking quadrant, not located in any starter collars, "T"s or "Y"s and located per plan						
X	X	33	Balance damper handles are flagged to identify their position						
		34							
		35							
		36	**Economizer**						
X	X	37	All mechanical components related to the economizer have been installed						
X	X	38	"Blank off" plate under economizer eyebrow has been installed						
X	X	39	Barometric relief damper operates freely						
X	X	40	Input sensors for the economizer have been properly located and connected to the Economizer						
X	X	41	Economizer has been tested to perform "Free" cooling when ambient conditions are below 55 degrees						
X	X	42	Mechanical cooling stages on when Economizer cooling is not available						
		43	Mechanical cooling stages on with the Economizer cooling when						
X	X	44	Economizer damper positions to minimum damper position when set						
		45							
		46							
		47	**Smoke Detectors**						
X	X	48	Smoke detector option has been included in package unit						
X	X	49	Return side smoke detector has been relocated from its shipping position to the factory provided installation location in the return section of the package unit						
X	X	50	All smoke detector sample tubes are properly located per manufacturers design						
X	X	51	The return smoke detector in each unit has been tested for unit shutdown						
X	X	52	The supply smoke detector in each unit has been tested for unit shutdown						
		53							
		54	**Remote Smoke Detector Enunciators and Resets**						
X	X	55	A remote smoke detector enunciator and reset has been installed in the managers office for each package unit						
X	X	56	RTU 1 supply side smoke detector alarm sets off the visual and audible						
X	X	57	After triggering RTU 1 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation						
X	X	58	RTU 1 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1						
X	X	59	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation						
X	X	60	RTU 2 supply side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2						
X	X	61	After triggering RTU 2 supply side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation						
X	X	62	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2						
X	X	63	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation						
		64							
		65							
		66							
		67							
		68							

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		69	**Zonesensor**						
	X	70	Baysens 135 Zonesensor is installed						
	X	71	Zonesensor to unit wiring is landed on proper terminals per detail						
	X	72	Remote sensor wiring is landed on proper terminals (8 and 9) of Zonesensor per detail						
	X	73	Jumper on back of Zonesensor is configured for remote sensor						
	X	74	Zonesensor is set up for eFlex operation						
	X	75	a)Fahrenheit selected						
	X	76	b)Whole degrees selected						
	X	77	c) Dual Setpoint selected						
	X	78	d)Heat/Cool/Auto/Off selected						
	X	79	e)Occupancy (Timed Override) Disabled						
	X	80	Zonesensor is programmed to Taco Bell parameters						
		81							
		82	**Thermostat**						
X		83	Thermostats are wired to package units per thermostat and unit wiring diagrams						
X		84	Package units equiped with two stage cooling have each cooling stage individualy wired and controled from their thermostat.						
X		85	Package units equiped with two stage heating have each heating stage individualy wired and controled from their thermostat.						
X		86	Thermostats are wired to Interlock Control Box per Detail on plan sheet E-6						
X		87	Thermostats are programmed to Taco Bell parameters						
		88	**Hoodstat**						
	X	89	Hoodstat has been installed in duct or hood per plan						
	X	90	Hoodstat is wired to terminals 1 and 2 of the Interlock Control Box						
	X	91	Hoodstat microswitch closes at 85 degrees						
		92							
		93							
		94	**Interlock**						
	X	95	Unswitched power is provided to H=HOT and N=Neutral terminals in the Control Box						
X	X	96	Hoodstat wires are landed on terminals 1 and 2 of the Control Box						
X	X	97	Terminal 16 of Control Box is wired to terminal 11 of RTU 1 RTRM (J6)						
X	X	98	Terminal 17 of Control Box is wired to terminal 12 of RTU 1 RTRM (J6)						
X	X	99	Terminal 19 of Control Box is wired to terminal 11 of RTU 2 RTRM (J6)						
X	X	100	Terminal 20 of Control Box is wired to terminal 12 of RTU 2 RTRM (J6)						
X	X	101	"Occupied" switch is installed so that it is "Hot" when switch is in "Unoccupied or OFF" position and landed on terminal 7 of the Control Box						
X	X	102	"Occupied" switch in "ON" position activates Kitchen Lights, EF-1, RTU 1 and						
X	X	103	"Occupied" switch in "OFF" position turns off Kitchen Lights, Dining Room lights, EF-2 and starts time delayed off of EF-1 and RTU 1 &2 evaporator fans (subject to Hoodstat and or Zonesensor override)						
		104							
		105							
		106							
		107	**Ansul Shutdown**						
X	X	108	Metal jumper clip on EPO terminals 5 and 6 of RTU 2 LTB 1 has been removed						
X	X	109	Terminals 5 and 6 of RTU 2 LTB 1 are wired to "Closed when Cocked"						
X	X	110	Upon activation of the fire suppression system discharge (microswitch opens) RTU 2 immediately shuts off						
		111							
		112							
		113							
		114	**Lighting**						
X	X	115	A 3 way switch, installed as a single switch and open in the UP throw position, has been installed as an "Occupied" switch in the managers office						
X	X	116	Up position of "Occupied" switch activates kitchen lighting via Control Box						
X	X	117	Up position of "Occupied" switch provides power, via the Control Box, to the Dining Room light switch in the managers office						
X	X	118	Photocell is wired to the Greengate Box per detail						
X	X	119	Exterior lights are wired to the Greengate Box per detail						
X	X	120	Sign lights are wired to the Greengate Box per detail						
X	X	121	Greengate Box is programmed to Taco Bell parameters						
X	X	122	Manual override of Greengate box activates lighting circuits						
		123							
		124							
		125							
		126							
		127	**Air Balance Supplement**						
X	X	128	Balancing performed in accordance to ASHRAE Standard 111-2008, NEBB, TABB or AABC standards						
X	X	129	Perform full fan speed adjustments after exhaust fan adjustments and supply air distribution adjustments have been made						
X	X	130	Perform outside air adjustment after all other balance adjustments are complete						
X	X	131	Perform outside air adjustment at full evaporator fan speed operating point						
	X	132	Perform outside air adjustment at medium fan speed operating point						
	X	133	Perform outside air adjustment at low fan speed operating point						
X	X	134	Verify lobby doors closures have been adjusted for ADA compliance						
X	X	135	Verify lobby doors closure operation during full economizer function of both package units and note result in air balance report						
X	X	136	Verify pressure relief system operation in full economizer operation						
X	X	137	Adjust power exhauster "ON" and "OFF" positions to mitigate door closure issues. Note if no power exhauster is available.						
X	X	138	Provide copy of air balance report to Commissioning Agent						
		139							
		140							
		141							
		142							

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CONTRACT DATE: 11/17/20
BUILDING TYPE: ENDEAVOR MED 40
PLAN VERSION: SEPT 2020
BRAND DESIGNER: 200109
SITE NUMBER: 297222
STORE NUMBER: 003717
ARCVISION: 200188

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COVINGTON, GA 30014

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ENDEAVOR
"GO MOBILE"
INSTALLATION START-UP PRE-COMM CHECK LIST

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