Belt Use Matrix

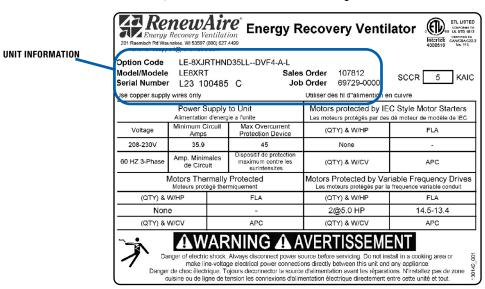
Supplement: HE-Series, LE-Series

OVERVIEW

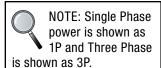
The following belt usage tables are split up by Unit Size, Indoor/Outdoor, Orientation, and Motor Size. Refer to the Configuration Code on the Unit Label found on the RenewAire Unit. For a complete Configuration Code breakdown, see the Reference section at the end of this supplement.

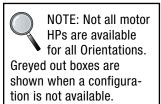
UNIT INFORMATION

Locate the RenewAire unit label, to be found on either the left or right side of the unit.



TYPICAL UNIT LABEL





IMPORTANT

It is important to understand and use the equipment airstream terminology as it is used in this manual. The airstreams are defined as:

- Outside Air (OA): Air taken from the external atmosphere and, therefore, not previously circulated through the system. Each unit has an OA air inlet, located on the end wall.
- Supply Air (SA): Air that is downstream of the enthalpic cores and is ready for conditioning.
- Return Air (RA): Air that is returned to a heating or cooling appliance from a conditioned space. Each unit has an RA inlet, optionally located on either the floor or the end wall of the unit.
- Exhaust Air (EA): Air that is removed from a heating or cooling appliance and discharged. Each unit has an EA outlet, which is on the EA outlet is on the side wall of the unit.

		HE-2X		
	1-1/2	2 HP	2	HP
MODEL	SA BELT EA BELT (RIGHT SIDE)		SA BELT (LEFT SIDE)	EA BELT (RIGHT SIDE)
HE-2XINV	A	33	A34	A33
	SA BELT (LOWER LEFT)	EA BELT (UPPER RIGHT)	SA BELT (LOWER LEFT)	EA BELT (UPPER RIGHT)
HE-2XINH	A37	A35	A38	
HE-2XRTV HE-2XRTF	A35		A36	A35
HE-2XRTH HE-2XRTR	A37	A35	A38	
			OA BELT (BACK)	EA BELT (FRONT)
HE-2XRTC			A43	A44

			HE-3X					
	2	HP	3	HP	5	5 HP		
MODEL	SA BELT (LOWER LEFT)	EA BELT (LOWER RIGHT)	SA BELT (LOWER LEFT)	EA BELT (LOWER RIGHT)	SA BELT (LOWER LEFT)	EA BELT (LOWER RIGHT)		
HE-3XINV	A40 A38		A43 Alternate: A42	A43	A	46		
	SA BELT (LOWER LEFT)	EA BELT (UPPER RIGHT)	SA BELT (LOWER LEFT)	EA BELT (UPPER RIGHT)	SA BELT (LOWER LEFT)	EA BELT (UPPER RIGHT)		
HE-3XINH	A38		A ⁴	42	A45			
HE-3XRTV HE-3XRTF			A43	A42	A45	A46		
HE-3XRTH HE-3XRTR			A	42	A46			
			OA BELT (BACK)	EA BELT (FRONT)				
HE-3XRTC			A49 (1P) A46 (3P)	A44				

			HE-4X					
	2	HP	3	HP	5	5 HP		
MODEL	SA BELT EA BELT (LOWER RIGHT)		SA BELT (LOWER LEFT)			EA BELT (LOWER RIGHT)		
HE-4XINV	A	40	A ⁴	43	A	16		
	SA BELT (LOWER LEFT)	EA BELT (UPPER LEFT)	SA BELT (LOWER LEFT)	EA BELT (UPPER LEFT)	SA BELT (LOWER LEFT)	EA BELT (UPPER LEFT)		
HE-4XINH	A38		A	42	A45			
HE-4XRTV HE-4XRTF			A43	A42	A45	A46		
HE-4XRTH HE-4XRTR			A42		A46			
					OA BELT (BACK)	EA BELT (FRONT)		
HE-4XRTC					A50	A47		

				HE-6X/7X/8	X			
FAN	3 1	I P	5	HP	7.5	HP	10	HP
BRAND			SA BELT	EA BELT	SA BELT	EA BELT	SA BELT	EA BELT
Peerless			B	52	(2) A47		(2)	B46
			SA BELT (SIDE)	EA (SIDE)	SA BELT (SIDE)	EA (SIDE)	SA BELT (SIDE)	EA (SIDE)
			B67		(2) A66		(2) B67	
S&P - Non-Listed			SA BELT (DOWN)	B79	SA BELT (DOWN)	(2) A78	SA BELT (DOWN)	(2) B79
			B75		(2) A74		(2) B75	
	SA BELT (SIDE)	EA (SIDE)	SA BELT (SIDE)	EA (SIDE)	SA BELT (SIDE)	EA (SIDE)	SA BELT (SIDE)	EA (SIDE)
	(2) A66		(2) A62		(2) A66		(2) B67	
S&P - ETL Listed	SA BELT (DOWN)	(2) A78	SA BELT (DOWN)	(2) A74	SA BELT (DOWN)	(2) A78	SA BELT (DOWN)	(2) B79
	(2) A74		(2) A70		(2) A74		(2) B75	

	L	E-6X	
MOTOR SPEED	3 HP	5 HP	7.5 HP
(MOTOR CODE)	SA/EA BELT	SA/EA BELTS	SA/EA BELTS
Low (D, J, M)	BX38 (1 per Blower)	BX36 (2 per Blower)	BX38 (2 per Blower)
Medium (F, K, N)	BX36 (1 per Blower)	BX42 (2 per Blower)	BX36 (2 per Blower)
High (G, L)	BX42 (1 per Blower)	BX38	
Any VFD	BX38 (1 per Blower)	(2 per Blower)	BX36 (2 per Blower)

	L	E-8X	
MOTOR SPEED	3 HP	5 HP	7.5 HP
(MOTOR CODE)	SA/EA BELT	SA/EA BELTS	SA/EA BELTS
Low	BX38	BX38	BX36
(D, J, M)		(2 per Blower)	(2 per Blower)
Medium	(1 per Blower)	BX36	BX38
(F, K, N)		(2 per Blower)	(2 per Blower)
High	BX36	BX40	BX40
(G, L, P)	(1 per Blower)	(2 per Blower)	(2 per Blower)
Any VFD	BX38	BX38	BX36
	(1 per Blower)	(2 per Blower)	(2 per Blower)

		LE10X				
MOTOR SPEED	3 HP	5 HP	7.5 HP	10 HP		
(MOTOR CODE)	SA/EA BELT	SA/EA BELTS	SA/EA BELTS	SA/EA BELTS		
Low (D, J, M)	BX38	BX38 (2 per Blower)	BX36 (2 per Blower)			
Medium (F, K, N, Q)	(1 per Blower)	BX36 (2 per Blower)	BX38 (2 per Blower)			
High (G, L, P, R)	BX36 (1 per Blower)	BX40 (2 per Blower)	BX40 (2 per Blower)			
Any VFD	BX38 (1 per Blower)	BX38 (2 per Blower)	BX36 BX38 (2 per Blower) (2 per Blower)			

FACTORY ASSISTANCE

In the unlikely event that you need assistance from the factory for a specific issue, make sure that you have the information called for in the Unit Information section of the unit manual. The person you speak with at the factory will need that information to properly identify the unit and the installed options.

To contact RenewAire Customer Service:

Call 800-627-4499

Email: RenewAireSupport@RenewAire.com

HE MODELS CONFIGURATION GUIDE

Note: Not all options are available on every model.

						No	te: N	lot a	all op	otion	ıs ar	e a
MODEL NUMB	ER	н	Εĺ				J					
DIGIT NUMBER	. 1	1	2	3	4	5	6	7	8	9	10	11
Digits 1–5:												
"HE07-", "HE1 "HE-3X", "HE-	0-", "HE1 4X", "HE-	.5", "H 6X", "H	E-2X", E-7X",	, "HE-	8X"							
Digits 7–8:	Location	1									_	
"IN" = Indoor "RT" = Roofton												
											_	
Digit 9: "V", "H" (Indoo	Orientat or Units)				s 1 & 3	30)					\dashv	
"V", "H", "R",	'F", "C ["] (Rooftop	Units)								╝	
Digit 10:	Vibratio	ı Isolati	on (se	e Rest	triction	s 28 &	(29)				\Box	
"-" = None "N" = Neopren	e Isolator	S										
"S" = Spring Is	solators											
Digit 11:	Wall Typ	e										
"S" = Single "D" = Double												
Digit 12:	Phase (\$	See Res	triction	n 2 8	11 &	20)					_	
"1" = Single P	hase	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, 0,	, , &						1	
"3" = Three Ph											_	
Digit 13: "1" = 120V	Voltage	(see Re	strictio	ons 3,	4, 5, 6	5, 7, 11	, 19, &	26)			-	
"4" = 460V												
"5" = 208-230 "8" = 575V	IV											
"9" = 277V												
Digit 14:								, & 25)		\exists	
"E" = EC Direc "A" = Advance								d HE10)- only)		
"B" = Intermed "S" = Standard					ed Imp	ellers ((HE07-	only)				
"U" = 1.5HP (H	E-2X only	<i>(</i>)	,									
"V" = 2HP (HE- "W" = 3HP (HE					IF-8¥ c	nnlv)						
"X" = 5HP (HE												
"Y" = 7.5HP (H				ly)								
				\t'		7.0.6	10.01	0.05				
Digit 15: "E" = EC Direc	EA Hors t Drive M							, & 25)		\dashv	
"A" = Advance								d HE10)- only)		

Digit 18:	Flow Control* (see Restrictions 12, 13, & 14)				
"-" = No Isolat	"-" = No Isolation Dampers (with no Bypass)				
"D" = Motorize	ed Damper both Airstreams (with no Bypass)				
"E" = Motorize	d Damper EA or RA Airstream (with no Bypass)				
"F" = Motorize	d Damper SA or OA Airstream (with no Bypass)				
"S" = Backdra	ft Damper OA Airstream (with no Bypass)				
"R" = Backdra	ft Damper EA Airstream (with no Bypass)				
"B" = Backdra	ft Damper both Airstreams (with no Bypass)				
"T" = Motorize	d Damper OA, Backdraft Damper EA (with no Bypass)				
"0" = Dry Bulb	Face and Bypass Dampers only				
"1" = Dry Bulb	"1" = Dry Bulb Bypass with Motorized Dampers all Airstreams				
"4" = Dry Bulb Bypass with Backdraft Damper OA Airstream					
"5" = Enthalpy Face and Bypass Dampers only					
"6" = Enthalpy Bypass with Motorized Dampers all Airstreams					
"9" = Enthalpy	Bypass with Backdraft Damper OA Airstream				

12 13 14 15 16 17 18 19 20 21 22 23 24

Digit 19:	Unit Control (see Restrictions 15, 16, 17, 18, 19, 20, 21, 24, & 27)			
"A" = Standard Unit Control Wiring				
"D" = Indepen	"D" = Independent Blower Control (HE1.5 only)			
"V" = Onboard VFD Both Airstreams with IE3 Premium Efficiency Motors				
"W" = Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors				
"G" = Terminal Strip for EC Motors or Impellers				

Digit 20:	Disconnect	
"N" = Non-Fused (Standard)		
"F" = Fused		

Digit 21:	Unit Control Enhancements (see Restrictions 16 & 22)				
"T" = Transformer with Isolation Relay (Standard)					
"1" = Enhanced Controls					
"2" = Premiun	"2" = Premium Controls				
"3" = Enhanced Controls with BACnet License					
"4" = Premium Controls with BACnet License					

Digit 22:	Filter Options (see Restriction 22)						
"-" = None (Standard)							
"F" = Filter Mo	onitor Both Airstreams						

Digit 23:	Other Options
"-" = None (Re	eserved)

Digit 24:	Paint and Customization								
"-" = None									
"W" = White Paint									
"C" = Custom Paint									
"X" = Custom	(" = Custom Unit								

Digit 25:	Safety Listing (see Restriction 23)
"L" = Listed	
"N" = Non-List	ted

*NOTES:

Digit 6 "J" = G5 Core Type. Digits 16 and 17 are not used in these models.

"B" = Intermediate EC Direct Drive Motorized Impellers (HE07- only)

"S" = Standard Impellers (HE1.5 only)
"U" = 1.5HP (HE-2X only)
"V" = 2HP (HE-2X, HE-3X, HE-4X only)

"Y" = 7.5HP (HE-6X, HE-7X, HE-8X only)
"Z" = 10HP (HE-7X, HE-8X only)

"W" = 3HP (HE-3X, HE-4X, HE-6X, HE-7X, HE-8X only)
"X" = 5HP (HE-3X, HE-4X, HE-6X, HE-7X, HE-8X only)

*Digit 18: For units with the Bypass Option, the face damper also acts as an isolation damper in the EA or RA airstream.

HE MODELS CONFIGURATION GUIDE

Note: Not all options are available on every model.

MODEL NUMBER	Н	E				J										-	-						-		
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Restrictions: 1: Orientation Code "C" not available with models HE07-, HE10-, HE-6X, HE-7X, HE-8X, HE1.5. 2: Phase Code "3" not available with model HE07-. 3: Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase). 4: Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase). 5: Voltage Code "8" (575V) not available with models HE07-, HE10-, & HE1.5. 6: Voltage Code "9" (277V) only available with HE1.5 models. 7: Voltage Code "1" (120V) only available with SA/EA Motor Codes "AA", "BB", "EE", "S", "U", "V". 8: Motor Codes "EE" or "BB" (EC Motors) only available with Phase Code "1" (Single Phase). 9: Only Motor Codes "EE", "AA", & "BB" (EC Motors) are available with models HE07- & HE10-. 10: Only Motor Code "AA" is available for HE07- & HE10- Models with Phase & Voltage Code "11". 11: Voltage Code "5" (208-230V) not available with Phase Code "3" in HE10- models. 12: Dampers and Bypass not available with Orientation Code "C" 13: Bypass only available with Location Code "IN". 14: Backdraft Dampers only available with HE1.5 models. 15: Unit Control Code "A" not available with models HE07- or HE10-. 16: Unit Control Code "A" not available with Unit Control Enhancements Codes "1", "2", "3", & "4" in HE1.5 models. 17: Unit Control Code "D" only available with HE1.5 models. 18: Unit Control Code "V" not available with models HE07-. HE10-. & HE1.5IN. 19: Unit Control Code "V" not available with Voltage Code "1". 20: Unit Control Code "V" not available with Phase Code "1" in HE1.5 models. 21: Unit Control Code "G" (Terminal Strip) only available in HE07-, HE10-, & HE1.5 with Motor Codes "EE", "AA", or "BB" (EC Motors). 22: Filter Code "F" not available with Unit Control Enhancements Codes "1", "2", "3", & "4". Filter Monitor is provided with those options. 23: Some units with Customization Code "X" are not safety listed. 24: Unit Control Code "W" (Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors) only available in HE-2X through HE-8X with motor codes "V", "W", "X", "Y", or "Z". 25: Motor Codes "UU", "UV", & "VU" not available in HE-2X with Unit Control Code "W" (Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors). 26: Voltage Code "8" (575V) not available with Unit Control Code "W" (Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors). 27: Unit Control Code "W" (Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors) not available with Voltage Code "8" (575V). 28: Vibration Isolation "N", & "S" only available with models HE-6X, HE-7X, & HE-8X.

29: Vibration Isolation "-" only available with models HE07-, HE10-, HE1.5, HE-2X, HE-3X, & HE-4X. 30: Orientation Code "V" not available with Location Code "IN" in models HE-6X, HE-7X, and HE-8X

LE MODELS CONFIGURATION GUIDE

Note: Not all options are available on every model.

MODEL NUMBER	L	E				J										- -										
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14 1	5 [1	6 17	18	19	20	21	22	23	24	25		
Digits 1–5: Mode	4			Digit 18		Flow C																				
"LE-6X"														lo Isolatio			Airetroa.	me								
"LE10X"	"LE-8X" "LE10X"											"D" = Motorized Damper both Airstreams "E" = Motorized Damper EA or RA Airstream														
													"F" = Motorized Damper FA or OA Airstream													
Digits 7–8: Locati	ion									4	Digit 10. Unit Control (see Destrictions C. 7. 0. 9. 11)															
"RT" = Rooftop										ı	Digit 19: Unit Control (see Restrictions 6, 7, 8, & 11) "A" = Standard Unit Control Wiring															
·											"V" = Onboard VFD Both Airstreams with IE3 Premium Efficiency Motors															
Digit 9: Orient										4	"W" = Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors															
"V", "H" (Indoor Units)) oftop Uni	its)									Digit 20: Disconnect															
. , , , . (Г	"N" = 1	Von-Fuse												
	tion Isola	tion								4		L	"F" = F	used												
"N" = Neoprene Isolat "S" = Spring Isolators										ı			Diait 2°	1.	Init C	ontrol En	hancom	onte								
o – opring ioolatoro	,									_				ransform					ard)							
Digit 11: Wall T	Гуре									4				nhanced												
"S" = Single "D" = Double													"2" = Premium Controls "3" = Enhanced Controls with BACnet License													
D = Double										_		"4" = Premium Controls with BACnet License														
	e (See Re	strictio	on 2)]		=														
"1" = Single Phase "3" = Three Phase													Digit 22	2: Ione (Stai		ptions (see Res	triction	9)							
3 - Hillee Filase														ilter Mon		th Airstr	eams									
	ge (see R	estricti	ion 1 8	k 10)								_														
"4" = 460V "5" = 208–230V													Digit 23			e Packa		`								
"8" = 208-230V											"A" = Assembled (single piece flat bed) "M" = Modular (two pieces for enclosed trailer)															
												=							′							
	rsepowe	r (see	Restric	ctions 2	2, 3, &	4)				4			Digit 24		Paint a	nd Cust	omizatio	n								
"D" = 3 HP Low Speed "F" = 3 HP Medium Speed										"-" = None "W" = White Paint																
"G" = 3 HP High Speed										ı	"C" = Custom Paint															
"J" = 5 HP Low Speed											"X" = Custom Unit															
"K" = 5 HP Medium S "L" = 5 HP High Spee													Diait 2	5:	Safety	Listing	see Res	triction	5)							
"M" = 7.5 HP Low Sp	eed										Digit 25: Safety Listing (see Restriction 5) "L" = Listed															
"N" = 7.5 HP Medium	Speed									"N" = Non-Listed																

Digit 15: EA Horsepower (see Restrictions 2, 3, & 4) "D" = 3 HP Low Speed "F" = 3 HP Medium Speed "G" = 3 HP High Speed "J" = 5 HP Low Speed "K" = 5 HP Medium Speed "L" = 5 HP High Speed "M" = 7.5 HP Low Speed "M" = 7.5 HP Low Speed "M" = 7.5 HP Medium Speed "P" = 7.5 HP Medium Speed "Q" = 10 HP Medium Speed "Q" = 10 HP Medium Speed "R" = 10 HP High Speed

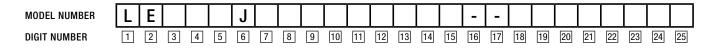
*NOTES:

"P" = 7.5 HP High Speed
"Q" = 10 HP Medium Speed
"R" = 10 HP High Speed

Digit 6 "J" = G5 Core Type. Digits 16 and 17 are not used in these models.

LE MODELS CONFIGURATION GUIDE

Note: Not all options are available on every model.



Restrictions:

- 1: Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase).
- 2: Phase Code "1" only available in Motor Codes "D", "F", & "G".
- 3: Motor Code "P" (7.5 HP High Speed) not available in LE-6X.
- 4: Motor Codes "Q" & "R" (all 10 HP Speeds) not available in LE-6X & LE-8X.
- 5: Some units with Customization Code "X" are not safety listed.

- 6: Unit Control Code "V" & "W" only available with Motor Codes "G", "L", & "N" in LE-6X.
 7: Unit Control Code "V" & "W" only available with Motor Codes "G", "L", & "P" in LE-8X.
 8: Unit Control Code "V" & "W" only available with Motor Codes "G", "L", "P", & "R" in LE-10X.
- 9: Filter Code "F" not available with Unit Control Enhancements Codes "1", "2", "3", & "4". Filter Monitor is provided with those options.

 10: Voltage Code "8" (575V) not available with Unit Control Code "W" (Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors).
- 11: Unit Control Code "W" (Onboard VFD Both Airstreams with IE5+ Ultra Premium Efficiency Motors) not available with Voltage Code "8" (575V).



About RenewAire

For over 30 years, RenewAire has been a pioneer in enhancing indoor air quality (IAQ) in commercial and residential buildings of every size. This is achieved while maximizing sustainability through our fifth-generation, static-plate, enthalpic-core Energy Recovery Ventilators (ERVs) that optimize energy efficiency, lower capital costs via load reduction and decrease operational expenses by minimizing equipment needs, resulting in significant energy savings. Our ERVs are competitively priced, simple to install, easy to use and maintain and have a quick payback. They also enjoy the industry's best warranty with the lowest claims due to long-term reliability derived from innovative design practices, expert workmanship and Quick Response Manufacturing (QRM).

As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA. We're **committed to sustainable manufacturing** and lessening our environmental footprint, and to that end our Waunakee, WI plant is 100% powered by wind turbines. The facility is also one of the few buildings worldwide to be LEED® and Green Globes certified, as well as having achieved ENERGY STAR Building status. In 2010, RenewAire joined the Soler & Palau (S&P) Ventilation Group in order to provide direct access to the latest in energy-efficient air-moving technologies. For more information, visit: renewaire.com

201 Raemisch Road | Waunakee, WI | 53597 | 800.627.4499 | RenewAire.com





