

**EVAPORATOR COILS  
N COIL – CASED  
UPFLOW, DOWNFLOW  
R-22 or R-410A SYSTEMS  
1½ – 5 Tons**

**GRANDAIRE**  
Heating & Cooling Products



Certification applies only when the complete system is listed with ARI

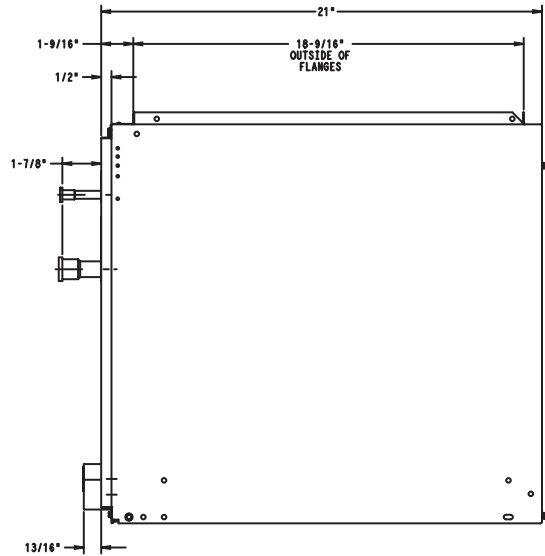
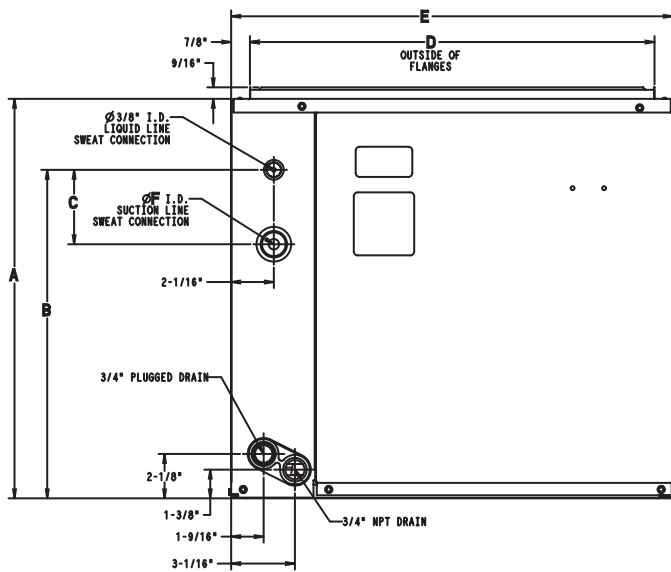
R-410A			R-22		
Model	Size (tons)	Evaporator Coil	Model	Size (tons)	Evaporator Coil
WENC184AA	1½	Plain Copper	WENC182AA	1½	Plain Copper
WTNC184AA		Tin-coated Copper	WTNC182AA		Tin-coated Copper
WENC244AA	2	Plain Copper	WENC242AA	2	Plain Copper
WENC244BA			Tin-coated Copper		
WTNC244AA		Tin-coated Copper			WTNC242AA
WTNC244BA			WTNC242BA		
WENC304AA	2½	Plain Copper	WENC302AA	2½	Plain Copper
WENC304BA			Tin-coated Copper		
WTNC304AA		Tin-coated Copper			WTNC302AA
WTNC304BA			WTNC302BA		
WENC364BA	3	Plain Copper	WENC362BA	3	Plain Copper
WENC364CA			Tin-coated Copper		
WTNC364BA		Tin-coated Copper			WTNC362BA
WTNC364CA			WTNC362CA		
WENC424BA	3½	Plain Copper	-	3½	Plain Copper
WENC424CA			Tin-coated Copper		
WTNC424BA		Tin-coated Copper			-
WTNC424CA			WTNC422CA		
WENC484CA	4	Plain Copper	WENC482CA	4	Plain Copper
WENC484DA			Tin-coated Copper		
WTNC484CA		Tin-coated Copper			WTNC482CA
WTNC484DA			WTNC482DA		
WENC604DA	5	Plain Copper	WENC602DA	5	Plain Copper
WTNC604DA		Tin-coated Copper	WTNC602DA		Tin-coated Copper

**STANDARD FEATURES**

- **Tin-coated Models** — WTNC models have tin-coated copper evaporator coils. These coils are built with special hairpins which are tin-coated to resist both general pitting corrosion and excessive Formicary Corrosion (indoor corrosion, an industry phenomenon).
- **Water Management** — Coils are designed to avoid water blow-off into the ducts by directing condensate away from the fins and into the drain pan.
- **Durable Condensate Pan** — Coils are equipped with a corrosion-resistant condensate drain pan designed with a slope to help ensure proper drainage, improved moisture removal, and home comfort.
- **Compact Design** — Unique design offers as much as 2-4" less in height to aid in tight installations.
- **Brass Inserts** — Every condensate pan features two 3/4" female threaded brass insert connections. The unique brass inserts provide for a leak-free condensate line connection to prevent water damage.
- **Refrigerant Connections** — Coils are provided with sweat-connections for leak-free operation.
- **Burst Pressures** — Coils meet or exceed burst pressure of 2100 psi.
- **Thermostatic Expansion Valves (TXV)** — All coils have refrigerant-specific factory-installed TXVs.
- **Teflon Ring** — Installed inside the liquid line connection at the TXV helps prevent refrigerant leaks. Teflon works with both R-410A and R-22 refrigerants.
- **Protective Tube Sheets** — Protects copper tubing during manufacturing and installation.
- **Warranty** — 5 year parts (with an additional 5 years parts if properly registered) limited warranty to the original purchaser only for owner-occupied dwellings – see warranty certificate for details.

**WENC, WTNC**

**Product Specifications**



A05429

Model Series	Dimensions (inches)						SHIPPING WT. (LBS.)	
	A	B	C	D	E	F	Plain Copper Hairpins	Tin-coated Copper Hairpins
W(E,T)NC18*AA	12-5/8	10-1/16	5-5/16	12-1/2	14-3/16	5/8	36.0	38.5
W(E,T)NC24*AA	14-5/8	12-1/16	5-5/16	12-1/2	14-3/16	5/8	39.5	40.0
W(E,T)NC24*BA	14-5/8	10-1/16	3-9/16	15-3/4	17-1/2	5/8	39.5	42.5
W(E,T)NC30*AA	17	13-5/8	5-5/16	12-1/2	14-3/16	3/4	46.5	50.0
W(E,T)NC30*BA	17	13-7/8	3-9/16	15-3/4	17-1/2	3/4	47.0	49.5
W(E,T)NC36*BA	17	13-7/8	3-9/16	15-3/4	17-1/2	3/4	48.5	51.0
W(E,T)NC36*CA	17	13-9/16	3-9/16	19-1/4	21	3/4	48.0	51.0
W(E,T)NC42*BA	21-1/8	13-7/8	3-9/16	15-3/4	17-1/2	7/8	52.0	55.0
W(E,T)NC42*CA	19	15-5/8	3-9/16	19-1/4	21	7/8	56.5	59.5
W(E,T)NC48*CA	22-1/16	17-1/2	3-9/16	19-1/4	21	7/8	65.5	68.5
W(E,T)NC48*DA	22-1/16	17-1/4	3-9/16	22-3/4	24-1/2	7/8	62.0	65.0
W(E,T)NC60*DA	26-5/16	17-15/16	3-9/16	22-3/4	24-1/2	7/8	78.0	80.5

\* 2 = R-22, 4 = R-410A refrigerant  
 (E) = Plain Copper Evaporator Coil  
 (T) = Tin-coated Copper Evaporator Coil

PERFORMANCE DATA

COOLING CAPACITIES (MBH) – R-410A REFRIGERANT

W(E,T)NC**4 UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F)														
			30			35			40			45			50		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
18	450	72	31.00	15.20	0.00	28.60	13.90	0.00	25.80	12.50	0.00	22.80	11.10	0.00	19.30	9.60	0.00
		67	26.00	15.70	0.00	23.50	14.30	0.01	20.70	12.80	0.01	17.60	11.30	0.01	14.10	9.80	0.01
		62	21.50	16.00	0.01	18.90	14.50	0.01	16.10	13.00	0.01	13.00	11.50	0.01	10.10	10.10	0.03
	600	72	38.30	18.70	0.00	35.30	17.10	0.00	32.00	15.50	0.00	28.20	13.80	0.00	23.90	12.00	0.01
		67	32.30	19.50	0.01	29.20	17.80	0.02	25.70	16.10	0.02	21.80	14.30	0.02	17.50	12.40	0.02
		62	26.70	20.10	0.02	23.50	18.40	0.02	20.00	16.60	0.02	16.20	14.80	0.02	12.90	12.90	0.06
	750	72	44.30	21.50	0.00	40.90	19.90	0.00	37.00	18.10	0.00	32.70	16.10	0.00	27.70	14.00	0.02
		67	37.40	22.80	0.03	33.90	20.90	0.03	29.90	19.00	0.03	25.40	16.90	0.03	20.40	14.70	0.04
		62	31.10	23.80	0.04	27.40	21.80	0.04	23.40	19.80	0.04	19.10	17.70	0.04	15.60	15.60	0.10
24	600	72	39.00	19.00	0.00	36.00	17.50	0.00	32.70	15.90	0.00	28.80	14.10	0.00	24.60	12.30	0.01
		67	32.80	19.80	0.01	29.80	18.20	0.01	26.30	16.40	0.01	22.40	14.60	0.02	18.10	12.60	0.02
		62	27.20	20.50	0.02	24.00	18.70	0.02	20.50	16.90	0.02	16.60	15.00	0.02	13.10	13.10	0.05
	800	72	47.10	22.80	0.00	43.60	21.10	0.00	39.60	19.30	0.00	35.00	17.30	0.02	29.90	15.10	0.02
		67	39.80	24.20	0.03	36.10	22.30	0.03	32.00	20.30	0.03	27.30	18.10	0.03	22.00	15.90	0.03
		62	33.10	25.40	0.03	29.30	23.40	0.03	25.10	21.20	0.03	20.50	19.00	0.04	16.70	16.70	0.09
	1000	72	53.40	25.90	0.00	49.50	24.20	0.00	45.10	22.10	0.02	40.00	19.90	0.03	34.10	17.50	0.04
		67	45.30	27.90	0.05	41.20	25.90	0.05	36.60	23.70	0.05	31.30	21.30	0.05	25.20	18.70	0.05
		62	37.80	29.60	0.05	33.60	27.40	0.05	28.80	25.10	0.05	23.80	22.70	0.06	20.00	20.00	0.13
30	750	72	48.00	23.50	0.00	44.00	21.40	0.00	39.70	19.20	0.00	34.80	17.00	0.00	29.40	14.60	0.01
		67	40.30	24.20	0.01	36.20	22.00	0.02	31.80	19.70	0.02	26.80	17.40	0.02	21.40	15.00	0.02
		62	33.20	24.80	0.02	29.10	22.50	0.02	24.60	20.20	0.02	19.90	17.90	0.02	15.60	15.60	0.05
	1000	72	58.70	28.50	0.00	53.90	26.10	0.00	48.50	23.60	0.00	42.50	20.90	0.02	35.80	18.10	0.03
		67	49.40	29.90	0.03	44.40	27.30	0.03	38.90	24.60	0.04	32.90	21.70	0.04	26.20	18.80	0.04
		62	40.80	30.90	0.04	35.80	28.20	0.04	30.30	25.40	0.04	24.60	22.60	0.05	19.90	19.90	0.10
	1250	72	67.40	32.70	0.00	61.90	30.10	0.00	55.70	27.30	0.02	48.80	24.20	0.04	41.10	21.00	0.05
		67	56.80	34.70	0.05	51.20	31.80	0.06	44.90	28.70	0.06	37.80	25.50	0.06	30.10	22.20	0.06
		62	47.10	36.30	0.06	41.30	33.20	0.06	35.00	30.10	0.06	28.60	27.00	0.07	23.70	23.70	0.14
36	900	72	58.10	28.30	0.00	53.40	25.90	0.00	48.00	23.30	0.00	42.10	20.60	0.01	35.50	17.80	0.02
		67	48.90	29.50	0.02	44.00	26.90	0.03	38.50	24.20	0.03	32.50	21.30	0.03	25.90	18.40	0.03
		62	40.40	30.40	0.03	35.40	27.70	0.03	29.90	24.90	0.03	24.20	22.10	0.04	19.40	19.40	0.08
	1200	72	70.00	33.90	0.00	64.30	31.20	0.00	57.80	28.30	0.02	50.70	25.10	0.04	42.70	21.80	0.05
		67	58.90	35.90	0.05	53.10	32.90	0.05	46.50	29.70	0.05	39.30	26.40	0.06	31.20	22.90	0.06
		62	48.80	37.50	0.06	42.80	34.30	0.06	36.30	31.00	0.06	29.60	27.80	0.06	24.40	24.40	0.13
	1500	72	79.30	38.60	0.00	72.90	35.60	0.02	65.70	32.30	0.05	57.50	28.80	0.06	48.50	25.10	0.07
		67	67.00	41.30	0.08	60.40	38.00	0.08	53.00	34.40	0.08	44.70	30.70	0.08	35.50	26.80	0.09
		62	55.70	43.60	0.09	48.80	40.00	0.09	41.60	36.50	0.09	34.20	32.90	0.10	28.80	28.80	0.18
42	1050	72	74.40	36.30	0.00	68.10	33.10	0.00	61.20	29.70	0.00	53.50	26.20	0.01	45.00	22.60	0.02
		67	62.30	37.60	0.02	56.00	34.20	0.03	48.90	30.60	0.03	41.20	27.00	0.03	32.80	23.30	0.03
		62	51.40	38.60	0.03	44.90	35.00	0.03	37.90	31.40	0.03	30.60	27.80	0.04	24.40	24.40	0.08
	1400	72	90.20	43.80	0.00	82.60	40.10	0.00	74.10	36.20	0.01	64.70	32.00	0.04	54.40	27.60	0.05
		67	75.80	46.00	0.05	68.00	42.00	0.05	59.40	37.70	0.06	50.00	33.40	0.06	39.60	28.90	0.06
		62	62.60	47.70	0.06	54.70	43.50	0.06	46.20	39.20	0.06	37.50	35.00	0.07	30.70	30.70	0.13
	1750	72	103.00	50.00	0.00	94.30	46.00	0.00	84.60	41.50	0.05	73.90	36.80	0.06	62.00	32.00	0.07
		67	86.70	53.10	0.08	77.80	48.60	0.08	68.00	43.90	0.08	57.10	39.00	0.08	45.20	33.90	0.09
		62	71.70	55.70	0.09	62.70	50.90	0.09	53.10	46.20	0.09	43.40	41.50	0.10	36.30	36.30	0.18
48	1200	72	79.30	38.70	0.00	72.90	35.40	0.00	65.70	31.90	0.00	57.70	28.20	0.00	48.80	24.40	0.01
		67	66.60	40.20	0.02	60.00	36.60	0.02	52.70	32.90	0.02	44.60	29.10	0.02	35.70	25.10	0.03
		62	55.00	41.30	0.03	48.30	37.60	0.03	40.90	33.80	0.03	33.10	30.00	0.03	26.30	26.30	0.07
	1600	72	96.00	46.60	0.00	88.30	42.90	0.00	79.60	38.90	0.00	69.90	34.50	0.03	59.10	30.00	0.04
		67	80.90	49.20	0.04	72.90	45.00	0.04	64.10	40.70	0.05	54.20	36.10	0.05	43.30	31.40	0.05
		62	67.00	51.20	0.05	58.80	46.80	0.05	49.90	42.30	0.05	40.70	37.90	0.05	33.30	33.30	0.11
	2000	72	109.40	53.10	0.00	100.70	49.10	0.00	90.90	44.60	0.03	79.90	39.80	0.05	67.50	34.70	0.06
		67	92.40	56.70	0.06	83.40	52.20	0.07	73.30	47.40	0.07	62.00	42.20	0.07	49.50	36.90	0.07
		62	76.70	59.70	0.07	67.50	54.90	0.08	57.40	49.90	0.08	47.20	44.90	0.08	39.50	39.50	0.16
60	1600	72	103.20	50.40	0.00	94.40	45.90	0.00	84.80	41.10	0.00	74.10	36.30	0.00	62.40	31.20	0.02
		67	86.40	52.10	0.02	77.50	47.20	0.02	67.80	42.30	0.02	57.10	37.20	0.03	45.40	32.10	0.03
		62	71.20	53.30	0.03	62.20	48.30	0.03	52.40	43.30	0.03	42.30	38.30	0.03	33.50	33.50	0.07
	2000	72	120.70	58.70	0.00	110.40	53.60	0.00	99.00	48.20	0.00	86.40	42.50	0.02	72.60	36.70	0.03
		67	101.20	61.30	0.03	90.70	55.70	0.04	79.20	50.00	0.04	66.60	44.10	0.04	52.80	38.10	0.05
		62	83.40	63.20	0.05	72.80	57.40	0.05	61.40	51.60	0.05	49.70	46.00	0.05	40.30	40.30	0.11
	2400	72	135.60	65.80	0.00	124.10	60.30	0.00	111.20	54.40	0.01	97.00	48.00	0.04	81.30	41.50	0.05
		67	113.90	69.30	0.05	102.10	63.20	0.06	89.10	56.90	0.06	74.80	50.30	0.06	59.20	43.60	0.06
		62	94.10	72.10	0.06	82.10	65.70	0.06	69.30	59.30	0.06	56.40	53.00	0.07	46.50	46.50	0.14

\*\* model size.

See notes following this section.

PERFORMANCE DATA (cont)

COOLING CAPACITIES (MBH) – R-22 REFRIGERANT

W(E,T)NC**2 UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F)														
			30			35			40			45			50		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
18	450	72	28.60	13.90	0.00	26.60	12.90	0.00	24.20	11.80	0.00	21.60	10.60	0.00	18.60	9.40	0.00
		67	24.20	14.80	0.01	22.10	13.70	0.01	19.70	12.50	0.01	16.80	11.20	0.01	13.50	9.70	0.01
		62	20.20	15.50	0.01	18.00	14.30	0.01	15.40	13.00	0.01	12.50	11.70	0.01	10.20	10.20	0.08
	600	72	33.70	16.40	0.00	31.40	15.30	0.00	28.70	14.10	0.00	25.60	12.80	0.01	22.00	11.40	0.01
		67	28.70	17.80	0.02	26.20	16.60	0.02	23.40	15.30	0.02	20.10	13.80	0.02	16.30	12.20	0.02
		62	24.00	19.00	0.02	21.50	17.80	0.02	18.60	16.40	0.02	15.40	14.80	0.03	13.00	13.00	0.12
	750	72	37.50	18.40	0.01	35.00	17.30	0.01	32.10	16.00	0.02	28.70	14.60	0.02	24.60	13.00	0.03
		67	32.00	20.30	0.03	29.40	19.10	0.03	26.20	17.70	0.03	22.60	16.10	0.03	18.60	14.40	0.03
		62	26.90	22.10	0.03	24.20	20.80	0.04	21.10	19.30	0.04	17.90	17.70	0.05	15.40	15.40	0.16
24	600	72	34.60	16.80	0.00	32.30	15.70	0.00	29.60	14.60	0.00	26.50	13.20	0.00	22.90	11.80	0.01
		67	29.40	18.30	0.01	27.00	17.10	0.01	24.20	15.70	0.01	20.90	14.30	0.01	17.10	12.60	0.02
		62	24.70	19.50	0.02	22.20	18.30	0.02	19.30	16.80	0.02	16.00	15.30	0.02	13.40	13.40	0.10
	800	72	39.50	19.40	0.01	37.10	18.40	0.01	34.20	17.10	0.02	30.70	15.70	0.02	26.60	14.10	0.02
		67	33.90	21.60	0.03	31.20	20.40	0.03	28.00	19.00	0.03	24.30	17.40	0.03	20.10	15.60	0.03
		62	28.60	23.70	0.03	25.80	22.30	0.03	22.60	20.80	0.04	19.30	19.10	0.05	16.80	16.80	0.16
	1000	72	43.20	21.50	0.03	40.60	20.50	0.04	37.50	19.20	0.04	33.80	17.70	0.04	29.30	16.00	0.04
		67	37.10	24.50	0.05	34.30	23.20	0.05	30.90	21.80	0.05	26.80	20.10	0.05	22.20	18.20	0.05
		62	31.50	27.30	0.05	28.60	25.90	0.05	25.30	24.30	0.06	22.30	22.30	0.11	19.60	19.60	0.21
30	750	72	45.90	22.30	0.00	42.50	20.60	0.00	38.60	18.80	0.00	34.10	16.80	0.01	28.60	14.60	0.01
		67	38.90	23.70	0.02	35.30	21.90	0.02	31.00	19.80	0.02	26.00	17.50	0.02	20.30	15.10	0.02
		62	32.30	24.80	0.02	28.30	22.80	0.02	24.00	20.60	0.02	19.30	18.30	0.03	15.90	15.90	0.12
	1000	72	53.80	26.20	0.00	49.90	24.40	0.01	45.40	22.40	0.02	40.30	20.20	0.03	34.30	17.80	0.03
		67	45.70	28.40	0.03	41.60	26.40	0.04	37.00	24.20	0.04	31.20	21.70	0.04	24.40	18.80	0.04
		62	38.30	30.40	0.04	34.00	28.20	0.04	29.00	25.80	0.04	23.80	23.20	0.06	20.00	20.00	0.16
	1250	72	59.80	29.30	0.03	55.50	27.40	0.04	50.60	25.30	0.04	44.80	22.90	0.05	38.40	20.40	0.05
		67	50.90	32.30	0.06	46.40	30.20	0.06	41.30	27.80	0.06	35.40	25.30	0.06	27.90	22.20	0.06
		62	42.70	35.10	0.06	38.30	32.90	0.06	33.10	30.30	0.07	27.70	27.50	0.09	23.70	23.70	0.21
36	900	72	53.50	26.00	0.00	49.50	24.10	0.00	45.10	22.10	0.01	40.00	19.90	0.02	33.80	17.40	0.02
		67	45.40	27.90	0.03	41.30	25.90	0.03	36.60	23.70	0.03	30.70	21.10	0.03	24.00	18.30	0.03
		62	37.90	29.70	0.03	33.50	27.40	0.03	28.50	24.90	0.03	23.20	22.30	0.05	19.30	19.30	0.15
	1200	72	61.60	30.10	0.02	57.20	28.20	0.03	52.10	26.00	0.04	46.20	23.50	0.04	39.60	20.90	0.05
		67	52.40	33.10	0.05	47.80	30.90	0.05	42.50	28.50	0.05	36.30	25.80	0.06	28.60	22.60	0.06
		62	44.00	35.90	0.06	39.40	33.60	0.06	34.00	30.90	0.06	28.30	28.00	0.08	24.10	24.10	0.20
	1500	72	67.50	33.40	0.06	62.90	31.40	0.06	57.40	29.10	0.07	50.80	26.50	0.07	43.60	23.70	0.08
		67	57.70	37.40	0.08	52.70	35.10	0.08	46.90	32.60	0.08	40.30	29.80	0.08	32.20	26.50	0.09
		62	48.60	41.20	0.08	43.70	38.80	0.09	38.30	36.10	0.09	32.90	32.90	0.13	28.30	28.30	0.25
42	1050	72	67.70	32.90	0.00	62.50	30.40	0.00	56.50	27.60	0.00	49.70	24.70	0.02	42.30	21.60	0.02
		67	57.10	35.00	0.03	51.70	32.20	0.03	45.60	29.30	0.03	38.80	26.20	0.03	30.30	22.60	0.03
		62	47.40	36.80	0.03	41.90	33.90	0.03	35.70	30.80	0.03	28.90	27.50	0.04	23.80	23.80	0.13
	1400	72	79.00	38.50	0.00	73.10	35.80	0.02	66.20	32.80	0.04	58.30	29.40	0.04	49.30	25.90	0.05
		67	66.90	41.80	0.05	60.70	38.70	0.05	53.50	35.40	0.06	45.50	31.90	0.06	36.30	28.10	0.06
		62	55.70	44.70	0.06	49.40	41.50	0.06	42.60	38.10	0.06	35.40	34.50	0.08	29.90	29.90	0.18
	1750	72	87.40	42.90	0.04	81.00	40.10	0.06	73.60	37.00	0.07	64.90	33.40	0.07	54.80	29.50	0.08
		67	74.30	47.40	0.08	67.60	44.20	0.08	59.70	40.60	0.08	50.60	36.70	0.08	40.90	32.80	0.09
		62	62.20	51.40	0.09	55.30	48.10	0.09	47.90	44.50	0.09	40.70	40.70	0.11	35.20	35.20	0.23
48	1200	72	72.40	35.20	0.00	67.30	32.70	0.00	61.20	30.00	0.00	54.20	27.00	0.01	46.30	23.70	0.02
		67	61.40	37.70	0.02	55.90	35.00	0.02	49.50	32.00	0.02	42.40	28.80	0.02	34.10	25.20	0.03
		62	51.20	40.00	0.03	45.50	37.00	0.03	39.20	33.90	0.03	32.20	30.50	0.03	26.70	26.70	0.12
	1600	72	83.80	41.00	0.00	78.00	38.40	0.02	71.30	35.40	0.03	63.30	32.10	0.03	54.00	28.50	0.04
		67	71.40	44.90	0.04	65.20	42.00	0.04	58.00	38.70	0.05	49.50	35.00	0.05	40.30	31.20	0.05
		62	59.80	48.50	0.05	53.40	45.30	0.05	46.30	41.90	0.05	39.00	38.30	0.07	33.40	33.40	0.17
	2000	72	92.10	45.50	0.04	86.00	42.90	0.05	78.70	39.80	0.05	70.10	36.40	0.06	60.00	32.50	0.06
		67	78.70	50.90	0.07	72.10	47.80	0.07	64.30	44.40	0.07	55.10	40.40	0.07	44.90	36.30	0.07
		62	66.30	55.90	0.07	59.60	52.60	0.07	52.10	48.90	0.08	44.90	44.90	0.11	39.20	39.20	0.22
60	1600	72	93.60	45.40	0.00	86.30	41.90	0.00	77.90	38.00	0.00	68.30	33.80	0.01	58.00	29.60	0.02
		67	78.90	48.10	0.02	71.20	44.20	0.02	62.70	40.10	0.02	53.20	35.70	0.03	41.70	30.80	0.03
		62	65.40	50.40	0.03	57.70	46.30	0.03	49.20	42.00	0.03	39.60	37.40	0.04	32.50	32.50	0.12
	2000	72	106.40	51.70	0.00	98.20	47.90	0.00	88.80	43.70	0.02	78.00	39.10	0.03	65.80	34.10	0.03
		67	89.90	55.50	0.04	81.30	51.30	0.04	71.50	46.70	0.04	60.60	41.80	0.04	48.30	36.60	0.04
		62	74.70	58.90	0.04	65.90	54.40	0.04	56.60	49.70	0.05	46.50	44.80	0.06	38.90	38.90	0.16
	2400	72	116.60	57.00	0.00	107.90	53.00	0.03	97.70	48.50	0.04	85.90	43.60	0.05	72.30	38.20	0.05
		67	98.90	61.90	0.06	89.60	57.50	0.06	78.90	52.50	0.06	66.60	47.20	0.06	53.70	41.80	0.06
		62	82.30	66.40	0.06	72.90	61.70	0.06	62.70	56.70	0.07	52.60	51.60	0.08	44.70	44.70	0.19

\*\* model size.

See notes following this section.

**LEGEND:**

- CFM** — Cubic Ft per Minute
- EWB** — Entering Wet Bulb (°F)
- LWB** — Leaving Wet Bulb (°F)
- TC** — Total Cooling Capacity 1000 Btuh
- BF** — Bypass Factor
- MBH** — 1000 Btuh
- SHC** — Sensible Heat Capacities (1000 Btuh)

**NOTES:**

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:  

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{LWB})$$

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$
 Where  $h_{EWB}$  = enthalpy of air entering coil
3. SHC is based on 80°F db temperature of air entering the evaporator coil.  
 Below 80°F db, subtract (Correction Factor x CFM) from SHC.  
 Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction–tube connection and a liquid–tube connection. For 1–1/8–in. system suction tube, 3/4 x 1–1/8–in. suction tube connection adapter is available as accessory.
8. The W(E,T)NC\*\*4 coils can be used in any properly designed system using R–410A refrigerant.
9. The W(E,T)NC\*\*2 coils can be used in any properly designed system using R–22 refrigerant.
10. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
11. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

<b>BYPASS FACTOR</b>	<b>ENTERING AIR DRY BULB TEMPERATURE (°F)</b>					
	79	78	77	76	75	Under 75
	81	82	83	84	84	Above 85
<b>Correction Factor</b>						
0.10	0.98	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$

PERFORMANCE DATA (cont)

COIL STATIC PRESSURE DROP (in wc.) R-410A AND R-22 REFRIGERANTS

UNIT SIZE	Standard CFM																			
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	
18*A	Dry																			
	0.078	0.114	0.156	0.198	0.253															
24*A	Wet																			
	0.096	0.138	0.183	0.213	0.277															
24*B	Dry																			
	0.070	0.103	0.143	0.182	0.233	0.290	0.354													
30*A	Wet																			
	0.089	0.128	0.171	0.214	0.269	0.336	0.413													
30*B	Dry																			
	0.048	0.068	0.090	0.112	0.140	0.170	0.203													
36*A	Wet																			
	0.064	0.091	0.122	0.150	0.188	0.224	0.263													
36*B	Dry																			
	0.065	0.097	0.135	0.173	0.223	0.278	0.339	0.405	0.478											
36*C	Wet																			
	0.078	0.114	0.160	0.206	0.260	0.321	0.388	0.461	0.540											
42*B	Dry																			
	0.042	0.060	0.080	0.102	0.128	0.157	0.188	0.222	0.259											
42*C	Wet																			
	0.055	0.076	0.104	0.127	0.158	0.190	0.225	0.266	0.309											
48*B	Dry																			
	0.043	0.061	0.082	0.103	0.128	0.157	0.189	0.221	0.259	0.299	0.341									
48*C	Wet																			
	0.056	0.079	0.107	0.133	0.166	0.200	0.236	0.276	0.315	0.361	0.413									
48*D	Dry																			
	0.035	0.048	0.062	0.076	0.093	0.111	0.132	0.153	0.177	0.201	0.228									
60*D	Wet																			
	0.049	0.066	0.085	0.100	0.122	0.144	0.171	0.192	0.217	0.245	0.276									
60*D	Dry																			
			0.072	0.093	0.118	0.145	0.175	0.206	0.243	0.281	0.322	0.366	0.413							
60*D	Wet																			
			0.079	0.102	0.13	0.159	0.192	0.228	0.26	0.303	0.348	0.396	0.446							
60*D	Dry																			
	0.030	0.041	0.054	0.066	0.082	0.099	0.118	0.137	0.158	0.180	0.205	0.231	0.259							
60*D	Wet																			
	0.043	0.059	0.078	0.101	0.126	0.153	0.181	0.207	0.234	0.260	0.288	0.319	0.354							
60*D	Dry																			
			0.047	0.060	0.075	0.092	0.110	0.130	0.152	0.176	0.204	0.230	0.256	0.284	0.318					
60*D	Wet																			
			0.053	0.067	0.085	0.104	0.125	0.147	0.172	0.200	0.228	0.259	0.292	0.327	0.365					
60*D	Dry																			
			0.015	0.046	0.057	0.069	0.094	0.019	0.119	0.124	0.140	0.158	0.175	0.195	0.214					
60*D	Wet																			
			0.032	0.050	0.066	0.081	0.097	0.114	0.131	0.150	0.169	0.190	0.211	0.233	0.257					
60*D	Dry																			
					0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210	0.228	0.251	0.273	0.293	
60*D	Wet																			
					0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258	0.283	0.310	0.336	0.366	

\* R-22 or R-410A refrigerant.

<b>EVAPORATOR COIL MODEL NUMBER IDENTIFICATION GUIDE</b>								
Digit Position:	1, 2	3	4	5, 6	7	8	9	10
Example Part Number:	<b>WE</b>	<b>N</b>	<b>C</b>	<b>24</b>	<b>2</b>	<b>A</b>	<b>A</b>	<b>1</b>
WE = Plain Copper Evaporator Coil WT = Tin-coated Copper Evaporator Coil								
A= A-coil N = N-coil			<b>TYPE</b>					
U = Uncased Upflow/Downflow C = Cased Upflow/Downflow H = Cased Horizontal			<b>INSTALLATION TYPE</b>					
18 = 18,000 BTU/hr = 1½ TONS 24 = 24,000 BTU/hr = 2 TONS 30 = 30,000 BTU/hr = 2½ TONS 36 = 36,000 BTU/hr = 3 TONS 42 = 42,000 BTU/hr = 3½ TONS 48 = 48,000 BTU/hr = 4 TONS 60 = 60,000 BTU/hr = 5 TONS				<b>NOMINAL COOLING CAPACITY</b>				
2 = R-22 4 = R-410A								<b>REFRIGERANT</b>
A = 14½" B = 17½" C = 21" D = 24½"								<b>CABINET WIDTH</b>
SALES DIGIT								
EXTRA DIGIT								