

COOLEX

Concealed Ducted Split Series R410A 24-60 MBH



Ducted Split with Hermetic Compressor
Tropical

50 Hz

For more technical information please visit our website www.coolex.com.kw





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OTHER COOLEX PRODUCTS

1. Air Cooled Screw Water Chillers
2. Air Cooled Scroll Water Chillers
3. Commercial Packaged Units
4. Residential Packaged Units
5. Air Handling Units
6. Ducted Split Units
7. Fan Coil Units



INTRODUCTION

COOLEX High Efficiency UL listed Concealed Ducted Split Units are designed specifically for tropical operation with high performance, low power consumption, easy installation and low noise operations.

COOLEX Concealed Ducted Split Units can be used for cooling or heating with optional duct electric heater.

NOMENCLATURE

CHEF 036 A 2

Unit Series Description
 NGCF- New Generation Condenser
 CHEF-Concealed High Efficiency Evaporator

Cooling Capacity Nominal MBH		
24	-	30
36	-	42
48	-	60

Electrical Specifications	
CODE	DESCRIPTION
2	415V/ 3 ph / 50hz
7	240V / 1 ph / 50hz

CODE	DESCRIPTION
A	First Series
B	Second Series
C	Third Series



UNIT RATING SUMMARY

Unit Model	Air Flow (CFM)	Ambient temp 95 °F				Ambient temp 115 °F				Ambient temp 118.4 °F			
		Cooling Capacity (MBH)	Total Power (kW)	kW/Ton	EER	Cooling Capacity (MBH)	Total Power (kW)	kW/Ton	EER	Cooling Capacity (MBH)	Total Power (kW)	kW/Ton	EER
NGCF-024A7/CHEF-024A7	950	23.21	2.11	1.09	11.00	20.52	2.38	1.39	8.61	20.06	2.43	1.45	8.27
NGCF-030A7/CHEF-030A7	1150	30.88	2.64	1.03	11.66	27.41	3.20	1.40	8.56	26.83	3.29	1.47	8.15
NGCF-036A2/CHEF-036A7	1200	38.50	3.21	1.00	11.99	34.53	3.99	1.39	8.65	33.85	4.12	1.46	8.23
NGCF-042A2/CHEF-042A7	1400	42.74	3.72	1.04	11.49	37.96	4.24	1.34	8.95	37.15	4.33	1.40	8.58
NGCF-048A2/CHEF-048A7	1600	49.24	4.08	0.99	12.07	45.80	5.08	1.33	9.02	45.22	5.25	1.39	8.61
NGCF-060A2/CHEF-060A7	2000	60.57	5.17	1.02	11.72	56.18	6.24	1.33	9.00	55.44	6.42	1.39	8.64

**Rating Conditions: Indoor Temperature = 80 °F (26.7 °C) DB.
67°F (19.4°C) WB.**

OUT STANDING FEATURES

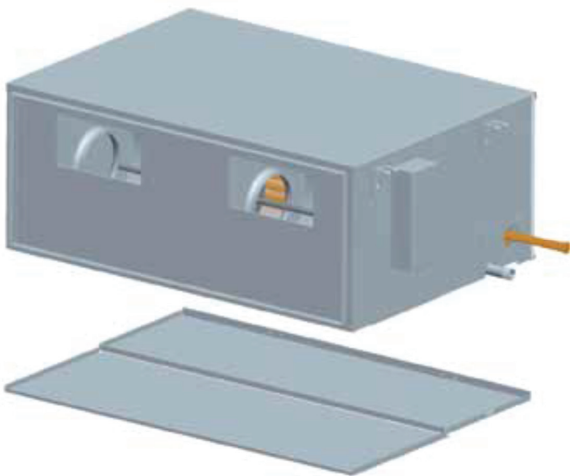
Indoor Unit:

- Compact design
- Low profile
- Low sound power level
- For ducted application
- 3 speed motors
- Easy maintenance
- Easy installation
- External terminal box

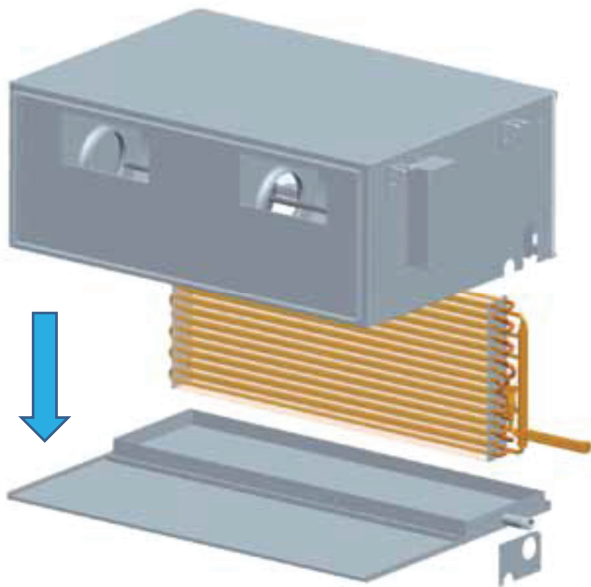
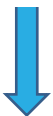
Outdoor Unit:

- High efficiency tropical design
- Galvanized heavy gauge panels, oven baked powder coated
- Designed to operate at severe ambient temperature up to 52°C without tripping
- Coil guard protection
- External service valve with gauge ports

OUT STANDING FEATURES



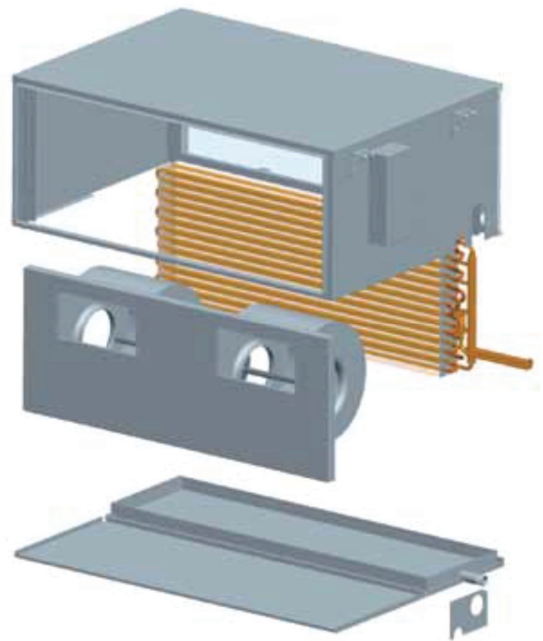
Bottom access panel



Bottom sliding coil and drain pan



- Wired Microprocessor controller
- Wired digital thermostat
- Wireless remote controller
- 240Volt controls
- Cleanable air filter



Bottom sliding fan deck



STANDARD SPECIFICATIONS (OUTDOOR UNIT) & (INDOOR UNIT)

General

The side discharge condensing units are provided with the latest advanced technology to provide quiet, reliable performance. The wrap around coil adds aesthetical appeal and gives optimum heat transfer efficiency. The access panels provide access to the compressor and to the control box. Removal of top panel gives access to fan motor and coil.

Unit Construction

The indoor unit consists of a coil, motor/blower assembly and a drain pan securely mounted on heavy gauge galvanized steel housing.

Condenser Coils

The coils are built up of ripple finned seamless copper tubes and mechanically bonded to scientifically designed louvered fins. The assembled coils are factory leak tested under water at a pressure of 700 [psig] for quality and leak free unit.

Condenser Fans

Axial type condenser fan are used which precisely match with extra strong fan motor to ensure efficient hot air dissipation.

Condenser Fan Motor

The condenser fan motors are a 4/6 poles electric motor which directly drive the condenser fans confirming to BS/IES standards. They are totally enclosed air over type electric motors with built-in thermal protector class F insulation.

Unit Casing

The casing sheet metal is fabricated from hot dipped G90, Zinc coating and zero spangle galvanized steel, oven-baked powder coated.

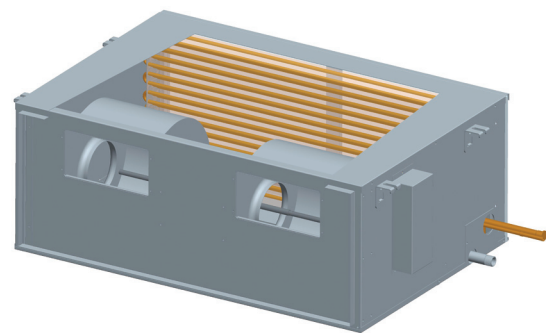


Evaporator Coils

The coils are built up of ripple finned seamless copper tubes and mechanically bonded to scientifically designed louvered fins. The assembled coils are factory leak tested under water at a pressure of 350 psig for quality and leak free units.

Blower Assembly

The units are provided with centrifugal fans which are statically and dynamically balanced, designed for low sound level operation



Compressor

The compressors are hermetically sealed type. The compressors are equipped with internal motor protector and necessary accessories for safe operation.

Evaporator Blower Motor

The evaporator blower motor is directly drives the evaporator blower conforming to BS/IES standards it is open drip proof type electric motors with built-in thermal protector and permanently lubricated ball bearings class B insulation.

Drain Pan

The drain pan is fabricated from galvanized steel. The drain pan is powder coat painted and the outer surface is thermally insulated.

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OPTIONAL SPECIFICATIONS

Duct Electric Heater

A protection box with duct electric heater and safety control can also be provided. Maximum kW Ratings is as shown

Model	kW	Model	kW
CHEF-024 A7	2	CHEF-042 A7	4
CHEF-030 A7	3	CHEF-048 A7	4
CHEF-036 A7	3	CHEF-060 A7	5

MICROPROCESSOR BASED CONTROLLER

Display:

- Room temperature/set temperature display in °C or °F
- Mode of operation (Cool/Heat/Dry/Fan system control)
- Error Codes





SELECTION PROCEDURE

The below example illustrates the selection procedure to assist using this catalog to select the appropriate CHEF/NGCF unit that meets the design requirements.

Example :

Design requirements

- Total cooling capacity 26,000 [Btu/hr]
- Sensible cooling capacity 16,500 [Btu/hr]
- Design ambient temperature 115 [°F]
- Evaporator air flow 1000 [CFM]
- Evaporator entering temperature DB/WB 80/67 [°F/°F]
- External static pressure 0.2 [in.wg]
- Altitude 2000 [ft]
- Power supply 415V /3Ph /50Hz

Altitude [ft]	Correction factor
Sea level	1
1000	0.996
2000	0.990
3000	0.984
4000	0.980
5000	0.974
6000	0.965
7000	0.960

*Using the correction factor table at the specified altitude, thereby the required capacity will be:

From the cooling capacity at performance data tables (page 10), the closest selection model to the required Capacity is CHEF/NGCF 030:

Corrected capacity = Required capacity /corr. Factor

Total capacity = 27,028 [Btu/hr]

Corrected total capacity = 26,000 [Btu/hr]/0.99
= 26,263 [Btu/hr]

Corrected sensible capacity = 16,500[Btu/hr]/0.99
= 16,667 [Btu/hr]

Sensible capacity = 18,843 [Btu/hr]



GENERAL DATA

Outdoor Units		NGCF 24	NGCF 30	NGCF 36	NGCF 42	NGCF 48	NGCF 60
Compressor	Type	Hermetically Sealed					
	Quantity	1	1	1	1	1	1
	Refrigerant	R 410A					
Condenser Fan	Type	Propeller					
	Quantity	1	1	1	1	1	1
	Airflow, m ³ /h (CFM)	3365 1980	3600 2120	4630 2725	5710 3360	5710 3360	6125 3605
	Drive	Direct					
Condenser Coil	Type	Enhanced Fins and Tubes					
	Row Deep	2	2	2	2	2	2
	FPI	13	13	13	13	13	13
	Total Area, Sq.m (Sq.Ft)	0.56 6.0	0.56 6.0	0.63 6.8	0.95 10.2	0.95 10.2	0.95 10.2
Weight	kg	59	61	64	150	152	158

Indoor Units		CHEF 024	CHEF 030	CHEF 036	CHEF 042	CHEF 048	CHEF 060
Evaporator Blower	Type	Centrifugal Forward Curve DWDI					
	Airflow, m ³ /h (CFM)	1,600 950	1,950 1150	2,040 1200	2,380 1400	2,720 1600	3,400 2000
	Drive	Direct					
	Type	Enhanced Fins and Tubes					
Evaporator Coil	Row Deep	3	3	3	3	3	3
	FPI	11	11	11	11	11	11
	Total Area, Sq.m (Sq.Ft)	0.23 2.5	0.23 2.5	0.32 3.4	0.32 3.4	0.42 4.5	0.42 4.5
Expansion Devices		Capillary/Thermal Expansion Valve					
Weight	kg	40	40	54	54	61	61



PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature (° F)											
	Air Flow	Temp ° F		95			115			118.4			122		
	CFM	DB	WB	Capacity (Btu/hr)		kW Input	Capacity (Btu/hr)		kW Input	Capacity (Btu/hr)		kW Input	Capacity (Btu/hr)		kW Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
CHEF-024A7/NGCF-024A7	725	86	72	25,146	16,144	2.17	22,220	15,138	2.46	21,719	14,967	2.51	20,632	14,368	2.66
		80	67	22,591	14,886	2.07	19,962	13,959	2.35	19,512	13,801	2.39	18,535	13,249	2.54
		74	62	19,912	13,476	1.96	17,595	12,637	2.22	17,198	12,494	2.26	16,337	11,995	2.40
		68	57	17,303	12,041	1.91	15,290	11,291	2.13	14,945	11,163	2.15	14,196	10,717	2.30
	850	86	72	25,479	16,406	2.22	22,515	15,384	2.51	22,007	15,210	2.56	20,905	14,602	2.71
		80	67	22,891	15,181	2.09	20,227	14,235	2.36	19,771	14,074	2.41	18,781	13,511	2.55
		74	62	20,175	13,756	1.99	17,828	12,899	2.25	17,425	12,754	2.29	16,553	12,244	2.43
		68	57	17,533	12,243	1.90	15,493	11,481	2.14	15,143	11,351	2.18	14,385	10,897	2.31
	950	86	72	25,836	16,729	2.24	22,831	15,687	2.53	22,316	15,510	2.58	21,198	14,890	2.74
		80	67	23,213	15,464	2.11	20,516	14,505	2.38	20,058	14,342	2.43	19,055	13,768	2.58
		74	62	20,457	13,995	2.00	18,077	13,123	2.27	17,669	12,975	2.31	16,784	12,456	2.45
		68	57	17,779	12,507	1.92	15,711	11,728	2.16	15,356	11,595	2.20	14,587	11,131	2.34
CHEF-030A7/NGCF-030A7	850	86	72	33,447	21,319	2.73	29,690	20,039	3.30	29,047	19,821	3.39	27,592	19,028	3.60
		80	67	30,048	19,659	2.60	26,673	18,478	3.15	26,095	18,276	3.24	24,788	17,546	3.43
		74	62	26,485	17,797	2.46	23,511	16,728	2.97	23,001	16,546	3.06	21,849	15,884	3.24
		68	57	23,015	15,901	2.39	20,430	14,946	2.85	19,987	14,783	2.92	18,986	14,192	3.11
	1000	86	72	33,890	21,665	2.78	30,084	20,364	3.36	29,432	20,142	3.46	27,958	19,337	3.67
		80	67	30,447	20,048	2.62	27,028	18,843	3.17	26,441	18,638	3.26	25,117	17,893	3.45
		74	62	26,835	18,166	2.49	23,821	17,075	3.01	23,304	16,890	3.10	22,137	16,214	3.29
		68	57	23,321	16,169	2.38	20,702	15,198	2.87	20,252	15,032	2.95	19,238	14,431	3.13
	1150	86	72	34,365	22,092	2.81	30,506	20,765	3.40	29,844	20,539	3.50	28,350	19,718	3.71
		80	67	30,876	20,422	2.64	27,414	19,201	3.20	26,825	18,993	3.29	25,484	18,233	3.49
		74	62	27,210	18,481	2.52	24,154	17,371	3.04	23,630	17,182	3.13	22,446	16,495	3.32
		68	57	23,649	16,516	2.40	20,992	15,524	2.90	20,537	15,355	2.98	19,508	14,741	3.16
CHEF-036A7/NGCF-036A2	1000	86	72	41,706	27,101	3.31	37,392	25,434	4.11	36,652	25,150	4.25	34,817	24,144	4.50
		80	67	37,468	24,989	3.16	33,593	23,452	3.93	32,928	23,191	4.06	31,279	22,263	4.30
		74	62	33,025	22,623	2.98	29,609	21,232	3.71	29,023	20,995	3.83	27,570	20,156	4.06
		68	57	28,698	20,213	2.90	25,730	18,970	3.56	25,220	18,758	3.65	23,957	18,009	3.90
	1100	86	72	42,258	27,541	3.38	37,888	25,847	4.20	37,138	25,558	4.34	35,278	24,536	4.60
		80	67	37,965	25,484	3.18	34,039	23,917	3.95	33,365	23,650	4.08	31,694	22,704	4.32
		74	62	33,461	23,093	3.02	30,000	21,673	3.76	29,406	21,431	3.88	27,934	20,574	4.12
		68	57	29,079	20,553	2.89	26,072	19,289	3.58	25,555	19,074	3.70	24,276	18,312	3.92
	1200	86	72	42,851	28,083	3.41	38,419	26,356	4.24	37,659	26,062	4.38	35,773	25,020	4.64
		80	67	38,500	25,959	3.21	34,525	24,370	3.99	33,849	24,100	4.12	32,157	23,136	4.37
		74	62	33,928	23,493	3.05	30,419	22,049	3.79	29,817	21,803	3.92	28,324	20,931	4.16
		68	57	29,488	20,995	2.92	26,438	19,704	3.62	25,914	19,484	3.73	24,617	18,705	3.96



PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature (° F)											
	Air Flow		Temp ° F	95			115			118.4			122		
	CFM	DB	WB	Capacity (Btu/hr)		kW Input	Capacity (Btu/hr)		kW Input	Capacity (Btu/hr)		kW Input	Capacity (Btu/hr)		kW Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
CHEF-042A7/NGCF-042A2	1150	86	72	46294	29736	3.84	41116	27816	4.37	40229	27489	4.46	38214	26390	4.73
		80	67	41590	27420	3.67	36938	25649	4.18	36141	25347	4.26	34331	24334	4.52
		74	62	36658	24823	3.46	32558	23220	3.95	31855	22947	4.03	30260	22030	4.27
		68	57	31856	22179	3.37	28292	20747	3.79	27681	20503	3.84	26295	19683	4.10
	1260	86	72	46908	30219	3.92	41662	28267	4.46	40762	27935	4.56	38721	26818	4.83
		80	67	42142	27962	3.69	37429	26156	4.20	36621	25849	4.29	34787	24815	4.55
		74	62	37142	25338	3.51	32988	23702	4.00	32276	23424	4.08	30659	22487	4.33
		68	57	32279	22552	3.35	28668	21096	3.81	28049	20848	3.89	26644	20014	4.12
	1400	86	72	47565	30814	3.96	42246	28824	4.51	41334	28486	4.60	39264	27347	4.88
		80	67	42,736	28,484	3.72	37963	26652	4.24	37,152	26,341	4.33	35294	25287	4.59
		74	62	37661	25778	3.54	33449	24113	4.04	32727	23830	4.12	31088	22877	4.37
		68	57	32732	23037	3.39	29071	21549	3.85	28443	21296	3.92	27019	20444	4.16
CHEF-048A7/NGCF-048A2	1325	86	72	53,335	34,382	4.20	49,604	33,713	5.24	48,961	33,599	5.41	46,509	32,255	5.74
		80	67	47,915	31,703	4.01	44,563	31,087	5.00	43,985	30,981	5.17	41,782	29,743	5.48
		74	62	42,233	28,701	3.79	39,279	28,143	4.73	38,770	28,048	4.88	36,828	26,927	5.18
		68	57	36,700	25,644	3.69	34,133	25,145	4.53	33,690	25,060	4.65	32,003	24,058	4.97
	1450	86	72	54,042	34,940	4.29	50,262	34,260	5.35	49,610	34,144	5.53	47,125	32,779	5.86
		80	67	48,551	32,331	4.04	45,155	31,702	5.03	44,569	31,594	5.20	42,338	30,331	5.51
		74	62	42,791	29,297	3.84	39,798	28,728	4.79	39,281	28,630	4.95	37,314	27,486	5.24
		68	57	37,188	26,075	3.67	34,586	25,568	4.56	34,137	25,482	4.71	32,428	24,463	5.00
	1600	86	72	54,799	35,629	4.33	50,966	34,936	5.40	50,305	34,817	5.58	47,786	33,425	5.91
		80	67	49,235	32,934	4.08	45,800	32,303	5.08	45,216	32,196	5.25	42,955	30,908	5.57
		74	62	43,389	29,805	3.88	40,354	29,226	4.83	39,830	29,127	5.00	37,835	27,962	5.30
		68	57	37,710	26,636	3.71	35,072	26,118	4.61	34,617	26,030	4.76	32,883	24,989	5.05
CHEF-060A7/NGCF-060A2	1640	86	72	65,614	43,509	5.33	60,847	42,170	6.43	60,026	41,941	6.62	57,020	40,264	7.02
		80	67	58,947	40,120	5.08	54,664	38,884	6.14	53,926	38,674	6.32	51,226	37,127	6.70
		74	62	51,957	36,321	4.80	48,182	35,203	5.80	47,532	35,012	5.97	45,151	33,612	6.33
		68	57	45,150	32,452	4.67	41,869	31,453	5.57	41,304	31,282	5.69	39,235	30,032	6.07
	1820	86	72	66,484	44,216	5.44	61,654	42,854	6.57	60,822	42,622	6.76	57,776	40,918	7.16
		80	67	59,730	40,914	5.11	55,390	39,654	6.18	54,642	39,439	6.36	51,906	37,862	6.74
		74	62	52,643	37,075	4.87	48,818	35,934	5.88	48,159	35,739	6.05	45,747	34,310	6.41
		68	57	45,749	32,998	4.65	42,426	31,982	5.60	41,853	31,809	5.76	39,756	30,537	6.11
	2000	86	72	67,416	45,087	5.49	62,518	43,699	6.63	61,675	43,462	6.82	58,586	41,724	7.23
		80	67	60,571	41,677	5.17	56,181	40,406	6.24	55,435	40,190	6.42	52,663	38,582	6.81
		74	62	53,378	37,718	4.91	49,500	36,557	5.94	48,832	36,359	6.11	46,386	34,905	6.48
		68	57	46,392	33,707	4.70	43,022	32,670	5.66	42,440	32,493	5.82	40,315	31,193	6.17



UNIT ELECTRICAL DATA

Outdoor Units		NGCF-024	NGCF-030	NGCF-036	NGCF-042	NGCF-048	NGCF-060
Unit Power Supply	Volt	240	240	415	415	415	415
	Phase	1	1	3	3	3	3
	Hz	50					
Compressor	V - Ph - Hz	220/240 - 1 - 50		380/420 - 3 - 50			
	RLA	12.5	13.6	6.6	6.8	10.7	10.0
	LRA	60	67	46	43	64	64
Condenser Fan Motor	V - Ph - Hz	240 - 1 - 50		415 - 3 - 50			
	Input kW	0.18	0.18	0.44	0.37	0.37	0.56
	FLA	1.16	1.16	0.78	1.3	1.3	1.6
Unit Ampacity, Ampere		17	18	9	10	15	15
Max. Fuse Size, Ampere		29	32	16	20	25	25
Minimum Wire Size, mm ²		4.0	4.0	2.0	2.0	2.5	2.5

Indoor Units		CHEF-024	CHEF-030	CHEF-036	CHEF-042	CHEF-048	CHEF-060
Unit Power Supply	Volt	240					
	Phase	1					
	Hz	50					
Blower Motor	V - Ph - Hz	240 - 1 - 50					
	Motor Hp	1/3	1/2	1/2	1/2	3/4	3/4
	FLA	2	2.8	2.8	2.8	4.2	4.2
Unit Ampacity, Ampere		2.5	3.5	3.5	3.5	5.3	5.3
Max. Fuse Size, Ampere		5	5	5	5	10	10
Minimum Wire Size, mm ²		1.5	1.5	1.5	1.5	1.5	1.5

LEGEND:

- FLA :Full Load Amps
- RLA :Rated Load Amps
- LRA :Locked Rotor Amps



SUPPLY AIR PERFORMANCE

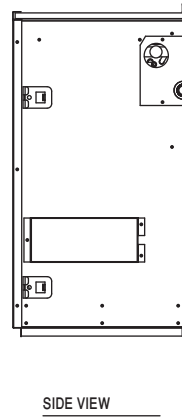
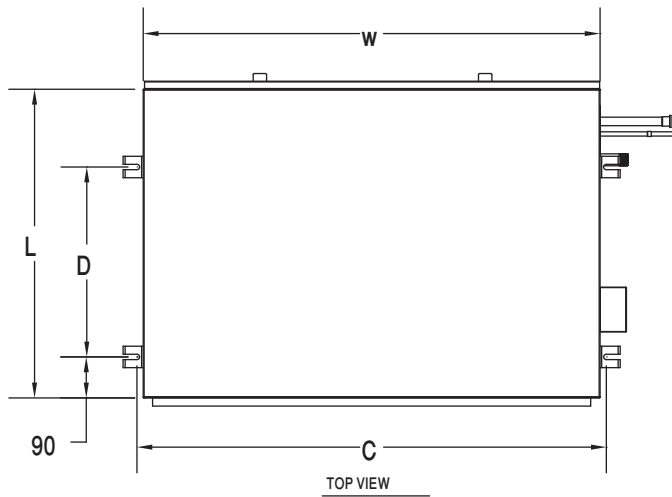
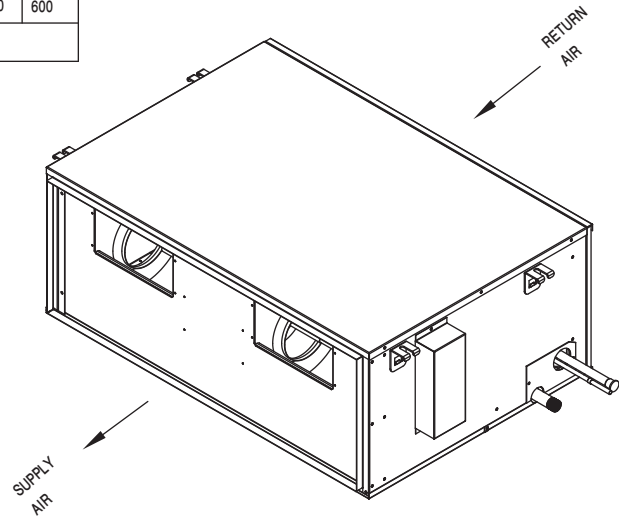
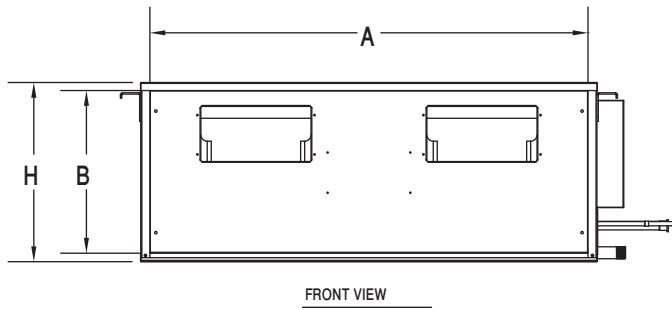
MODEL	SPEED	External Static Pressure [In.wg]										
		0	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5
		Air Flow Rate [CFM]										
CHEF-024	HIGH	1122	1084	1039	1011	962	925	880	813	739	695	630
	MED	1065	1030	991	955	916	873	827	763	717	653	-
	LOW	986	950	915	878	833	791	742	686	625	575	-
CHEF-030	HIGH	1178	1138	1091	1062	1010	971	924	854	776	730	662
	MED	1108	1071	1031	993	953	908	860	794	746	679	-
	LOW	1016	979	942	904	858	815	764	707	644	592	-
CHEF-036	HIGH	1422	1379	1336	1289	1242	1189	1141	1089	1029	963	890
	MED	1366	1322	1282	1233	1190	1195	1091	1035	981	904	-
	LOW	1303	1261	1223	1173	1126	1075	1026	973	914	832	-
CHEF-042	HIGH	1479	1434	1389	1341	1292	1237	1187	1133	1070	1002	910
	MED	1407	1362	1320	1270	1226	1231	1124	1066	1010	931	-
	LOW	1329	1286	1247	1196	1149	1097	1047	992	932	849	-
CHEF-048	HIGH	1857	1822	1777	1730	1695	1652	1593	1520	1416	1312	1210
	MED	1809	1768	1722	1682	1635	1590	1526	1447	1350	1253	-
	LOW	1745	1696	1650	1621	1580	1536	1448	1397	1324	1251	-
CHEF-060	HIGH	2173	2124	2082	2037	1991	1942	1894	1842	1785	1748	1681
	MED	2085	2029	2002	1960	1910	1861	1816	1761	1725	1672	1613
	LOW	2002	1965	1912	1875	1827	1775	1730	1682	1637	1596	1522

UNIT DIMENSIONS

Indoor Unit

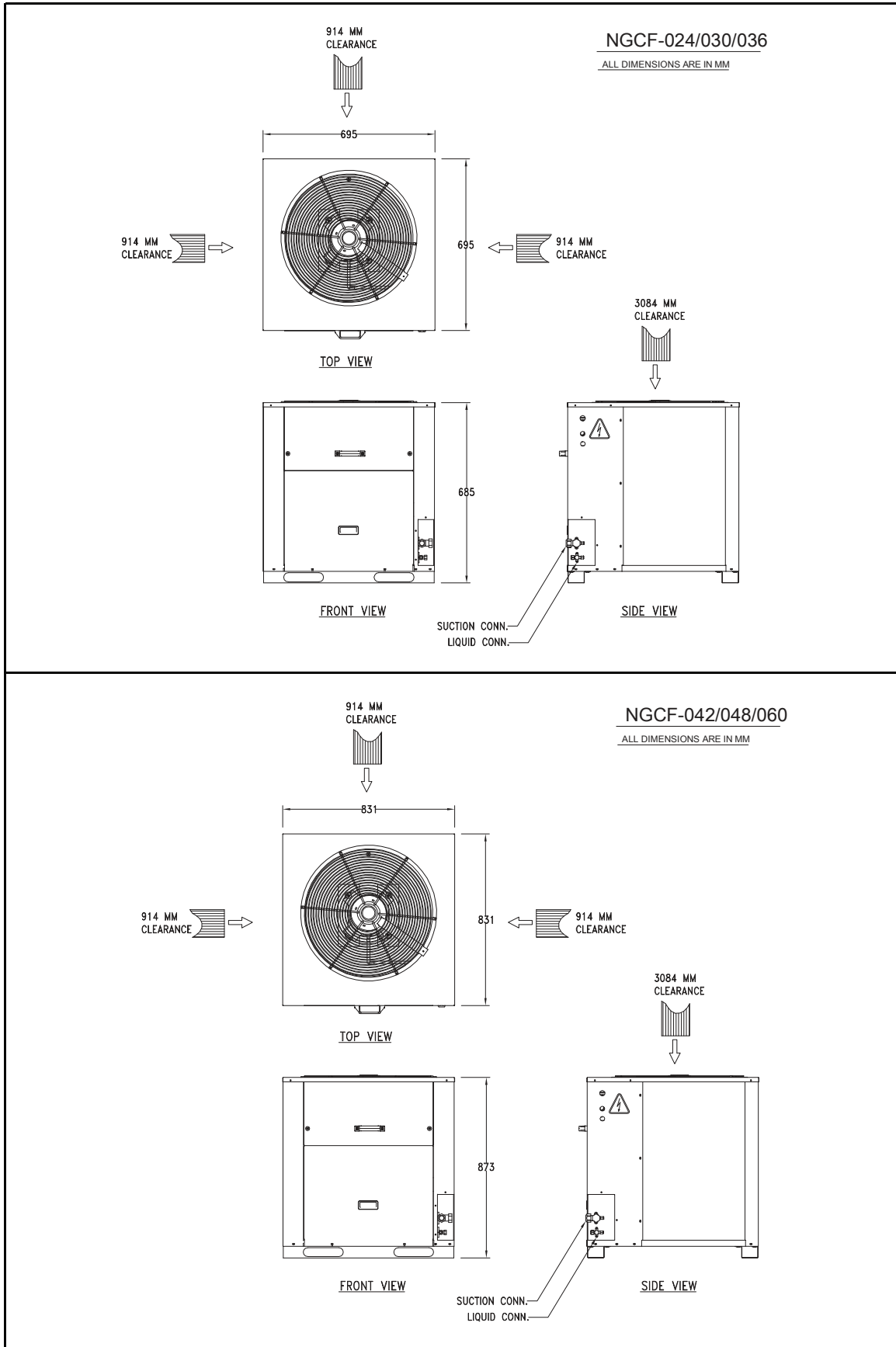
MODEL	DIMENSIONS					
	L	W	H	DUCT CONN. A X B	C	D
CHEF-024	600	950	325	912 X 288	980	380
CHEF-030	600	950	325	912 X 288	980	380
CHEF-036	670	950	370	912 X 333	980	425
CHEF-042	670	950	370	912 X 333	980	425
CHEF-048	840	1020	400	980 X 363	1050	600
CHEF-060	840	1020	400	980 X 363	1050	600

ALL DIMENSIONS ARE IN mm



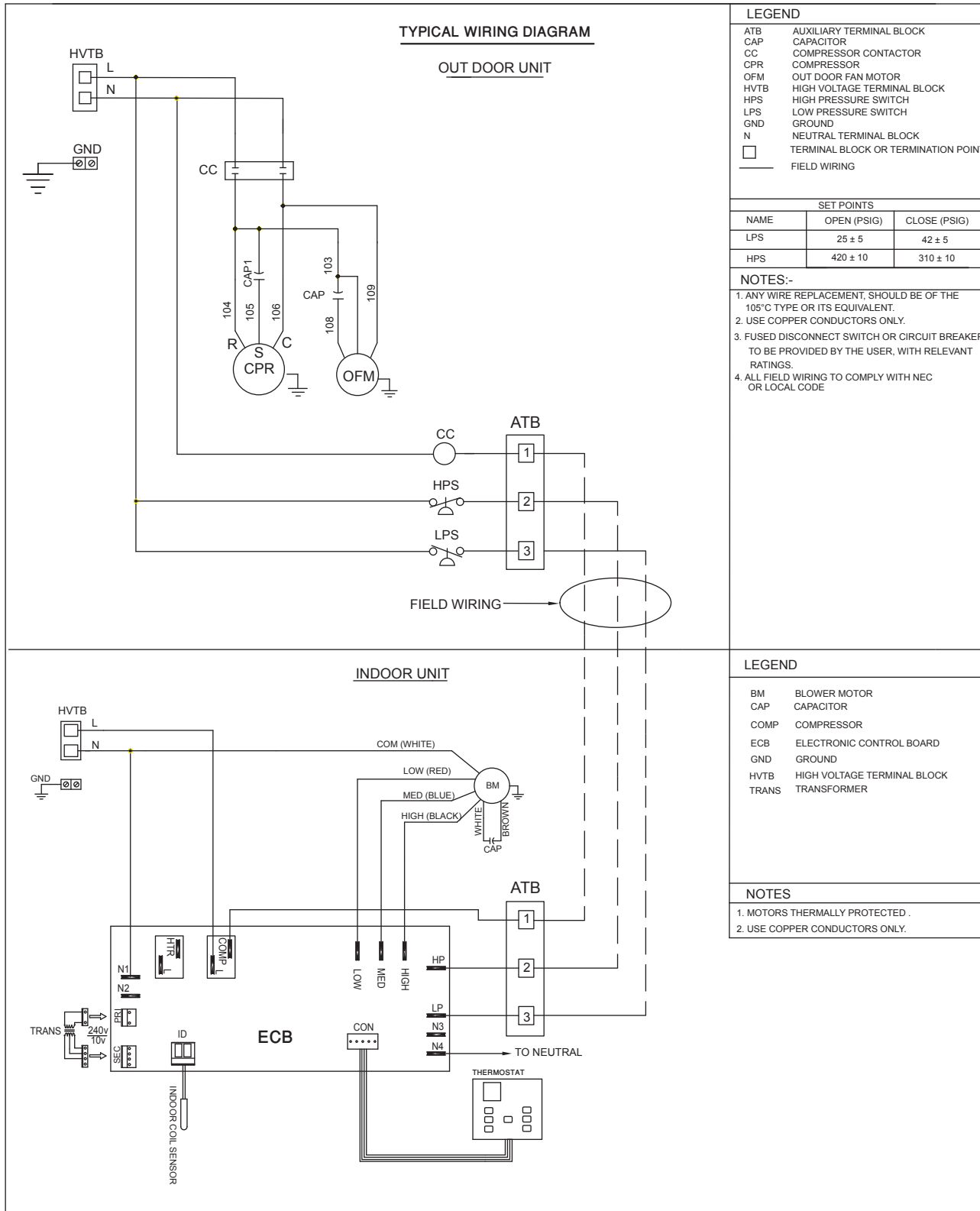
UNIT DIMENSIONS

Outdoor Unit



WIRING DIAGRAMS

Typical Wiring Diagram



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NOTES



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