

#### Comfort with Confidence.

# **COMMERCIAL PRODUCTS**

# **PACKAGE AIR CONDITIONERS**

2	2 - 5 Tons	2.5 - 5 Tons		3 - 6 Tons	3 - 5 Tons	3 - 5 Tons	6 Tons
- Levritic ENERGY STAR	PAR5 ENERGY STAR® Up to 16.0 SEER, Up to 12.5 EER 2-stage scroll compressor High-efficiency ECM blower motor Accessory filter racks support 2" filters Hail guard tight-wire grille 208/230 volts single- and 3-phase	PAD4 - Up to 14.0 SEER, 11.5 EER - Convertible airflow design - Scroll compressor - High-efficiency ECM blower motor - Accessory filter racks support 2" filters - 208/230 volts single- and 3-phase, 460 volts	ENERGY STAF	RAH036, RAH048, RAH060, RAH072 - ENERGY STAR - Up to 15.6 SEER, 12.5 EER - Single-stage cooling - Medium and high- static fan motor options - Factory installed economizer option - Convertible airflow design - Scroll compressor - 208/230, 460 or 575 volts	<ul> <li>RAW</li> <li>16.0 SEER, 12.2 EER</li> <li>New X-Vane Fan<sup>™</sup> Technology</li> <li>Medium and high- static fan motor options</li> <li>Factory installed economizer option</li> <li>Convertible airflow design</li> <li>Scroll compressor</li> <li>2-stage cooling</li> <li>208/230 volts single- and 3-phase, 460 volts</li> </ul>	RAV - 14.0 SEER - Up to 11.8 EER - New X-Vane Fan <sup>T3</sup> Technology - Medium and high- fan motor options - Factory installed economizer optior - Convertible airflow design - Scroll compressor - Single-stage coolin - 208/230 volts sing and 3-phase, 460 v RAX - 14.0 SEER - Only available in 575 volt models	- Medium and high-static fan motor options - Factory installed economizer option - Convertible airflow v design - Scroll compressor - 2-stage cooling ag - 208/230 volts single- and 3-phase, 460 volts
	6 - 12.5 To			7.5 - 15 Tons		7.5 - 10 Tons	
Control Control ENERGY STAR Select models	- ENERGY - 11.7 - 12.4 - 2-stage cc - Medium a - Factory ir - Convertib - Dual scroo	EER, Up to 16.2 IEER	pptions	RASO90, RAS102, R. - Up to 11.3 EER, Up to - Medium and high-stat - Factory installed econ - Convertible airflow de - Dual scroll compresso - 2-stage cooling - 208/230 volts 3-phas	12.6 IEER tic fan motor options omizer option sign rs	- 11.2 EER, 12.9 - 2-stage/single - Medium and l - Factory instal - Convertible ai	) IEER e circuit cooling capacity high-static fan motor options led economizer option
	15, 17.5, 2	0, 25 Tons	15, 17.5, 20,	25 Tons	17.5, 20, 25 Tons	15, 1	17.5, 20, 25 Tons
r7.5 ton I7.5 ton Exercise Select models	- Dedicated - Medium a fan optior - Factory in - Scroll con - 2-stage cc circuits an	RAH300 STAR EER, Up to 13.8 IEER I vertical airflow und high-static indoor us astalled economizer option apressors booling with independent id controls volts 3-phase only,	<ul> <li>Dedicated ho</li> <li>Medium and fan options</li> <li>Factory insta</li> <li>Scroll compr</li> <li>2-stage coolin circuits and co</li> </ul>	H3O3 AR IR, Up to 13.5 IEER rizontal airflow high-static indoor lled economizer option essors ag with independent	- Scroll compressors	RAS to 12.9 IEER - 10. flow - De n option - Hig nomizer option - Fac - Scr ndependent - 2-s cir se only, 460 - 200	5213, RAS243, 5303, RAS333 0 - 11.0 EER dicated horizontal airflow gh-static indoor fan option ctory installed economizer option roll compressors stage cooling with independent cuits and controls 8/230 volts 3-phase only, 460 575 volts
PACK		AL FUEL	СОМ			ERS C	ASED COILS
. / (01	2 - 5 Tons			6 - 25 Tons			7.5 & 10 Tons
	<ul> <li>Dual Fuel - heat pump</li> <li>Scroll comp</li> <li>Convertible</li> <li>Stainless st heat exchar</li> <li>Aluminized exchanger (</li> <li>Direct spar</li> <li>High-efficie</li> <li>Accessory fi</li> </ul>	SEER EER and 8.0 HSPF gas heat and electric pressor e airflow design eel tubular nger (PDS4) l steel tubular heat (PDD4)		FAS072, FA FAS120, FA FAS180, FA FAS300 - AC fan coil - TXV standa - 4-row coil - Optional hi static fan m - Painted or - Multi-posit - 5 - 70 kW electric hea	S091, FHS072, FH: S150, FHS120, FHS S240, FHS240 - HP fan coil - TXV standar rd - 4-row coil - Optional hig gh- otor - Painted or unpainted cabinet ion - Multi-positic - 5 - 70 kW	stao, d h- otor	CAHZ (Horizontal) CAVT (Vertical) - R-410A - R-22 Direct-expansion evaporator coils - TXV - 3/8" coil tubing - Shipped with nitrogen holding charge

## **PACKAGE GAS/ELECTRICS**

- 5 Tons	2.5 - 5 Tons	3 - 6 Tons	3 - 5 Tons	3 - 5 Tons	6 Tons
GR5 ENERGY STAR Up to 16.0 SEER, Up to 12.5 EER 2-stage scroll compressor 2-stage gas heat Stainless steel heat exchanger High-efficiency ECM blower motor Accessory filter racks support 2" filters Hail guard tight-wire grille 208/230 volts single- and 3-phase	PGS4, PGD4 - Up to 14.0 SEER, 11.5 EER - Scroll compressor - Convertible airflow design - Stainless steel tubular heat exchanger (PGS4) - Aluminized steel tubular heat exchanger (PGD4) - Direct spark ignition - High-efficiency ECM blower motor - Accessory filter racks support 2" filters - 208/230 volts single- and 3-phase, 460 volts	- ENERGY STAR - Up to 15.6 SEER, 13.0 EER - Single-stage cooling - Medium and high- static fan motor options - Three heat options (low, medium, high) - Factory installed economizer option - Convertible	16.0 SEER, 12.2 EER New X-Vane Fan™ Technology 2-stage gas heat Medium and high- static fan motor options Factory installed economizer option	<ul> <li>Up to 11.6 EER</li> <li>Medium and his static fan motor options</li> <li>Factory installee economizer opt</li> <li>Convertible airf design</li> <li>Scroll compress</li> <li>Single-stage cool</li> <li>208/230 volts</li> </ul>	<ul> <li>Medium and high- static fan motor options</li> <li>Factory installed</li> <li>economizer option</li> <li>Convertible airflow</li> <li>or design</li> <li>Scroll compressor</li> <li>2-stage cooling</li> <li>nase, - 208/230 volts single- and 3-phase, 460 volts</li> <li>RGS072</li> <li>- 11.0 EER, 12.7 IEER</li> <li>n - Only available in</li> </ul>
6 - 12.5 Tons		7.5 - 15 Tons	7	.5 - 10 Tons	
<ul> <li>Three heat option</li> <li>Factory installed</li> <li>Convertible airflot</li> <li>Tubular heat excl</li> <li>2-stage gas heat</li> <li>Dual scroll comp</li> </ul>	Jp to 16.0 IEER	RGS090, RGS102, RGS120, 10.8-11.1 EER, Up to 12.8 IEE Medium and high-static fan m Three heat options (low, medi Factory installed economizer Convertible airflow design Tubular heat exchanger 2-stage gas heat Dual scroll compressors 2-stage cooling 208/230 volts 3-phase only, 4	R - notor options - um, high) - option - - - - - - - -	11.0 EER, 12.7 IEI 2-stage/single circ Medium and high Three heat option Factory installed of Convertible airflor Tubular heat exch 2-stage gas heat 2-stage cooling	R suit cooling capacity -static fan motor options s (low, medium, high) sconomizer option w design
	15, 17.5, 20, 25 Tons	15, 17.5, 20, 25 Tons	15, 17.5, 20, 25	5 Tons	15, 17.5, 20, 25 Tons
17.5 ton unit shown	RGH181, RGH210, RGH240, RGH300 - ENERGY STAR - 11.2 - 12.0 EER, Up to 13.8 IEER - 81% AFUE - Dedicated vertical airflow - Tubular heat exchanger - Medium and high-static indoor fan options - Three heat options (low, medium, high) - Factory installed economizer option - Scroll compressors - 2-stage cooling with independent circuits and controls - 208/230 volts 3-phase	RGH183, RGH213, RGH243, RGH303 - ENERGY STAR	RGS210, RGS2 RGS300, RGS3 - 9.8 - 10.8 EER, EER - 80 - 81% AFUE - Dedicated verti	40, 336 Up to 12.7 IEER cal airflow schanger oor fan option tons high) ed tion sors ; with reuits 3-phase	RGS213, RGS243, RGS303, RGS333

CHS072, CHS091, CHS121, CHS180, CHS240

models

- Up to 11.0 EER

Scroll compressor

- Single refrigerant

circuit on CHS072, CHS091, CHS121

- Comfort Alert®

diagnostics

15 - 20 ton unit shown

- Dual refrigerant circuit

on CHS180, CHS240

- Low-ambient control

- 208/230 volts 3-phase

only, 460 or 575 volts

option (-20° F)

## **IT HEAT PUMPS**

NH4H4 - Horizontal discharge with narrow footprint - 14.0-15.0 SEER depending on indoor combination**** - Scroll compressor - 208/230 volts single-* and 3-phase, 460 volts	

NXH6	N4H4
- Minimum 15.4	- 14.0 SEER
SEER, 8.2 HSPF	- Scroll compressor
- Hail guard tight-	- 208/230 volts
wire grille	single-* and
- Scroll compressor	3-phase, 460 volts
- 208/230 volts 3-pha	ase

PAR5, PAD4, PGR5, PGD4, PGS4, PHR5, PHD4 - Cabinet air leakage of 2.0% or less at 0.5 in. W.C. when tested in accordance with ASHRAE standard 199 Factory installed option available for low cabinet air leakage and tin-coated copper evaporator main tubes

- 208/230 volts single- and 3-phase

RAS, RGS, RHS units for installation in the United States contain use of the 2-speed indoor fan control system. This complies with the U.S. Department of Energy (DOE) efficiency standard of 2018.

RGH 10, 175, 20, 25 to multis for installation outside the United States may or may not contain use of the 2-speed indoor fan control system. RAS, RGS, RHS, RAH, RGH, RHH units for installation outside the United States may or may not contain use of the 2-speed indoor fan control system as they are not required to comply with the U.S. Department of Energy (DOE) efficiency standard of 2018.

- 208/230/460

or 575 volts

\* Single-phase split-system units are subject to the DOE Regional Efficiency Standards \*\* Comfort Alert\* is a registered trademark of Emerson Climate Technologies, Inc.

Factory installed options (FIOPs) are available on select models of Comfortmaker® package rooftops. A full line of commercial accessories is available. See your Comfortmaker sales representative for availability! Comfortmaker® commercial products are covered by the following parts-only limited warranties: • Stainless Steel Heat Exchanger - 15 Yrs. (RGH & RGS models only) • Aluminized Steel Heat Exchanger - 10 Yrs. • Compressor - 5 Yrs. (unless otherwise indicated) • Parts - 1 Yr.

- 208/230/460

or 575 volts

# Bringing you the ultimate in commercial value!

# **PACKAGE HEAT PUMPS**

	2 - 5 Tons 2	2.5 - 5 Tons		3 - 6 Tons	3 - 5 Tons	6 Tons
ENERDY STAR	- ENERGY STAR - - Up to 15.5 SEER, - 12.5 EER - - 2-stage scroll - compressor - - High-efficiency ECM blower - motor - - Accessory filter - racks support 2" filters - Hail guard - tight-wire grille	PHD4 Up to 14.0 SEER 12.0 EER and 8.0 HSPF Scroll compressor Convertible airflow design High-efficiency ECM blower motor Accessory filter racks support 2" filters 208/230 volts single- and 3-phase, 460 volts	ENERGY STAR Select models	RHH036, RHH048, RHH060, RHH072 - ENERGY STAR - Up to 15.8 SEER, 11.7 - 12.8 EER - Single-stage cooling - Medium and high-static fan motor options - Factory installed economizer option - Convertible airflow design - Scroll compressor - 208/230, 460 or 575 volts	RHX - 14.0 SEER, 8.0 - 8.2 HSPF - Medium and high-static fan motor options - Factory installed economizer option - Convertible airflow design - Scroll compressor - Single-stage cooling - 208/230 volts single- and 3-phase, 460 or 575 volts	RHS072 - 11.1 EER, 12.7 IEER - Medium and high-static fan motor options - Factory installed economizer option - Convertible airflow design - Scroll compressor - 208/230 volts 3-phase only, 460 or 575 volts
	6 - 10 Tons	7.5 - 8.5 Tons	10 - 12.5 To	ns	15 & 20 Tons	15 & 20 Tons
EVERGY STAR Select models	RHH073, RHH090, RHH102, RHH120 - ENERGY STAR - Up to 12.3 EER, 12.9 - 15.6 IEER - 2-stage cooling - Medium and high- static fan motor options - Factory installed economizer option - Convertible airflow design - Dual scroll compressors - 208/230 volts 3-phas only, 460 or 575 volts		RHS120, RH - 10.6 - 11.0 E 12.0 - 12.5 I - Medium and high-static f motor optio - Factory inst economizer - Convertible airflow desig - Dual scroll compressor - 2-stage cool - 208/230 vo only, 460 or	EER, EER d an ns alled option gn s ing lts 3-phase	<ul> <li>RHS181, RHS240</li> <li>10.6 - 10.8 EER, 12.0 IEER</li> <li>Dedicated vertical airflow</li> <li>Medium and high- static fan motor options</li> <li>Factory installed economizer option</li> <li>Scroll compressors</li> <li>2-stage cooling with independent circuit and controls</li> <li>208/230 volts</li> <li>3-phase only, 460 or 575 volts</li> </ul>	h independent circuits

# **SPLIT CONDENSING UNITS**

### NH4A4

#### - Horizontal discharge with narrow footprint

### - 14.0-15.0 SEER depending on indoor

- combination\*\*\*
- Scroll compressor - 208/230 volts single-\* and 3-phase, 460 volts



#### 2.5 - 5 Tons N4A3

- 13.0 SEER - Scroll compressor
- 208/230 volts single-\* and 3-phase, 460 or 575 volts

	7.5 - 12.5 Tons	10 - 12.5 Tons	15 & 20 Tons
CASO72 - 11.5 EER - Scroll compressor - Comfort Alert® diagnostics - Low-ambient control option (-20° F) - 208/230 volts 3-phase only, 460 or 575 volts	CASO91, CAS121, CAS151 - Up to 11.2 EER - Scroll compressor - Single refrigerant circuit - Comfort Alert® diagnostics - Low-ambient control option (-20° F) - 208/230 volts 3-phase only, 460 or 575 volts	CAS120, CAS150 - 11.2 EER - Dual scroll compressors - Comfort Alert® diagnostics - Low-ambient control option (-20° F) - 208/230 volts 3-phase only, 460 or 575 volts	CAS180, CAS181, CAS240, CAS241 - 11.0 EER - Scroll compressor - Single or dual refrigerant circuit - Comfort Alert® diagnostics - Low-ambient control option (-20° F) - 208/230 volts 3-phase only, 460 or 575 volts

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## A SIMPLER WAY TO CREATE CUSTOMIZED SUBMITTALS:



# **Online Equipment Selection Program!**



Use the Equipment Selection Program website to create submittals for engineers, code officials, builders or property owners. It guides you through the process of selecting the right equipment for every application, based on the criteria you enter, matching the best products, factory-installed options and correct accessories for every job.

Plus you can create a **complete professional presentation** in PDF format with a customized appearance (left). Then you can print, email or save order lists to be used or revised at a later date, which allows you to provide engineers as many copies as they need without any hassle. You can also generate equipment schedules in Microsoft® Excel® format.

# **Rooftop Energy Savings Calculator**

• Compare energy costs and payback performance of rooftop equipment

### • For replacement applications

- Evaluate the energy cost savings and payback of replacing old, inefficient equipment

#### For new construction applications

- Helps evaluate the energy cost and payback performance of standard vs. high-efficiency equipment or competitor equipment
- Available on HVACPartners under "Products and Solutions"
- It's FREE! Available through your local distributor

Job Information			Equipment Information	Baseline (Unit 1)	_	Proposed (Unit 2)
Job Title	Retail shop		Unit Description	Existing Unit	-	New Processed Unit
Job Type	Replacement	•	Equipment Type	Cooling with Gas Heat	-	Cooling with Gas Heat
	Provide the second seco	_	Manufacturer	Trane	-	
Notes		- 1	Model.	Vouager VCD Std E# (1997)	-	RGS
			Sex	180 (Low Heat)	-	ICP RGS 180 (Low Heat)
	and the second s	1	Refligerant.	8-22		R-410a
Evelerences: # RTUs to Compare, Settings, etc		Age (rs):	D Years	-	19213	
Location Information		Cooling Capacity	14.33 Tens	-1	15.00 [timi	
Report	TUSA	-	AHRI Cooling Rating	8.60 EER		12.80 EER
negos	loave	-	Capacity Control	2-Stage	*	2-Stage
Location:	Louisiana		Heating Capacity	203.0 MBH		148 0 MEH
City.	New Orleans IAP	-	AHRI Heating Rating	COP		COR
éne.	New Orleans Day	•	Heating Efficiency:	81.0 %		E10 %
Building Informatio	00		Indoor Fan:	Belt Drive, Medium Static, 3Ph		Medium Static, 1Ph
Building Type	Office		Indoor Fan Power:	5.67 BHP		3.70 BHP
		-	Indoor Fan Control	1-Speed		1-Speed
Unit Peak Clo Los	ad. 15.0 Tons		Economizer:			
Energy Prices			DCV (CO2) Control:	r		E
Input Data:	Louisians - EIA		Purchase Cost (\$)		-	
Electric Price (Avg	0.09100 \$4Wh		Purchase Cost (5) Installation Cost (5)	-	0	70
Execute Price (Avg	the Landauna service		Maint + Repair (Svr)		750	30
Gas Price (Avg):	9.01000 SMCF +	0	Downlime Loss (S/r.)	-	1250	

- Simple inputs
- Simulates 8 building types

- Intuitive help screens

## **Comfortmake**

## Submittal Data

Purchaser	ABC Commercial Development Corp.
Engineer	James Smith
Architect	Samuel Williamson
Prepared By:	David Donaldson Donaldson Heating & AC, LLC 615-555-1234 Email: David@DonaldsonHeating.con

It's easy to get started with the ESP website. All vo need to do is register at GoComfortmaker.com by clicking on Product Information > Equipment Selection Program. Or, go to www.icpeqp.com

Just fill out the online form and follow the

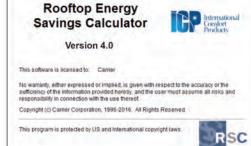
Col	mfori	imal							
Home	Project	Units	FIOPs	Field Acc	Tstats	Performance	Submittal	Order List	Sche

Project Name	Revision
Project Location (City, State)	
Purchaser (optional)	

## **Calculates Professional Reports:**

- Payback Period
- Maintenance, Repair Costs
- Total Energy Savings
- Graphic Displays
- Detailed Energy Savings:
- Fan
- Cooling
- Heating

Savings After Payback Period



### NEW - RSC:

- Dedicated Software Program
- Economic (cash flow / payback)
- Replacement Jobs
- New Construction Jobs
- Custom or Detail (Pick and Click)



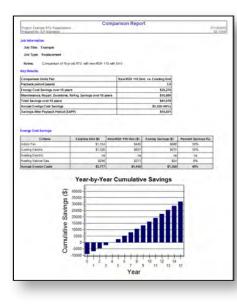
# Get the ICP<sup>®</sup> RTU Mobile App on **Your Smartphone**

The ICP® Rooftops app allows users to perform on the spot selection of HVAC rooftop units for both replacement and new construction, and estimate energy savings between ICP® Standard and High-Efficiency units. Users can input an existing unit model number for Comfortmaker or competitive equipment, or desired unit specifications, and obtain the optimal Comfortmaker model for their requirements.

- · Provides size, weight, base electrical data
- · Select units by model, size, or CFM

#### Auto-populates if replacement or new construction

- Pulls current energy data no guessing
- Uses Hourly Analysis Program (HAP) calculation engine





#### Available on:

Apple<sup>®</sup> iOS 6.0 and above (including iOS 8.0+) Android<sup>™</sup> 4.0 and above Windows<sup>®</sup> 8.0 and above Smartphones and Tablets





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