

# COMMERCIAL PRODUCTS

# Bringing you the ultimate in commercial value!

### PACKAGE AIR CONDITIONERS

### - ENERGY STAR® - Up to 14.0 SEER,

### - Up to 16.0 SEER, 11.5 EER Un to 12.5 FFR - Convertible 2-stage scroll







3-phase



RAH073, RAH090, RAH102, RAH120, RAH150

Medium and high-static fan motor options

208/230 volts 3-phase only, 460 or 575 volts

Factory installed economizer option



460 volts

11.7 - 12.4 EER, Up to 16.2 IEER

- Convertible airflow design

Dual scroll compressors

11.4 - 12.2 EER, Up to 13.8 IEER

Medium and high-static indoor

2-stage cooling with independent

Factory installed economizer option

Dedicated vertical airflow

2" filters - 208/230 volts single- and 3-phase,

- ENERGY STAR

2-stage cooling

RAH181, RAH210,

**ENERGY STAR** 

fan options

Scroll compressors

circuits and controls

460 or 575 volts

208/230 volts 3-phase only

RAH240, RAH300



 Factory installed economizer option desian - Scroll compressor

## RAH036, RAH048,

### **RAH060 RAH072 ENERGY STAR** Up to 15.6 SEER. Technology 12.5 EER Single-stage

static fan motor - Factory installed Medium and high-static fan Convertible airflow motor options

RAS090, RAS102, RAS120, RAS150, RAS180

Medium and high-static fan motor options

208/230 volts 3-phase only, 460 or 575 volts

RAS210, RAS240,

**RAS300, RAS336** 

circuits and controls

or 575 volts

10.0 - 11.0 EER, Up to 12.9 IEE

Factory installed economizer option

- Scroll compressor 2-stage cooling Convertible airflow - 208/230 volts single- and

3-phase, 460 volts 208/230, 460 or 575 volts

- Un to 11.3 FFR Un to 12.6 IFFR

- Convertible airflow design

Factory installed economizer option - Scroll compressors

Dual scroll compressors

### - 16.0 SEER, 12.2 EER - 14.0 SEER

- Up to 11.8 EER - New X-Vane Fan™ New X-Vane Fan<sup>™</sup> Medium and high-Technology

 Medium and high-static fan motor options fan motor option Factory installed economizer option Convertible airflow

- Scroll compresso - Single-stage cooling - 208/230 volts single-

575 volt models

and 3-phase, 460 volts - 14.0 SEER - 11.2 EER. 12.8 IEER - Only available in

### - Only available in 575 volt models

- 11.2 EER, 15.2 IEER

New X-Vane Fan<sup>™</sup>

Factory installed

economizer option

Convertible airflow

Scroll compressor

208/230 volts single-

and 3-phase, 460 volts

- 2-stage cooling

Medium and high-static

Technology

RAS089, RAS100, RAS119 - 11.2 FFR. 12.9 IFFR

- 2-stage/single circuit cooling capacity - Medium and high-static fan motor options Factory installed economizer option

- Convertible airflow design - 208/230 volts 3-phase only, 460 or 575 volts



- 10.0 - 11.0 EER

 Dedicated vertical airflow High-static indoor fan option Factory installed economizer

Factory installed economizer Scroll compressors

circuits and controls - 208/230 volts 3-phase only, 460

208/230 volts 3-phase only, 460 or 575 volts

### RAS213, RAS243,

RAS303, RAS333

- Dedicated horizontal airflow

High-static indoor fan option

- 2-stage cooling with independent - 2-stage cooling with independent

### or 575 volts

Scroll compressors

circuits and controls

10.9 - 11.8 EER, Up to 13.5 IEER

Medium and high-static indoor

2-stage cooling with independent

208/230 volts 3-phase only, 460

Dedicated horizontal airflow

RAH183, RAH213,

RAH243, RAH303

- FNFRGY STAR

fan options

### COMMERCIAL AIR HANDLERS PACKAGE DUAL FUEL

### PDS4, PDD4

Scroll compressor Convertible airflow design Stainless steel tubular

heat exchanger (PDS4)

Direct spark ignition

High-efficiency ECM blower motor

exchanger (PDD4)

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 193

RGH 10, 175, 20, 25 ton units and RAH 10 ton units for installation in the United States contain use of 2-speed indoor fan control system

### Up to 14.0 SEER

## 11.5 - 12.0 EER and 8.0 HSPF

Dual Fuel - gas heat and electric heat pump

Aluminized steel tubular heat

 Accessory filter racks support 2" filters - 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.

### FAS072, FAS091. FHS072, FHS091, FAS120, FAS150. FHS120, FHS180,

FAS180, FAS240, FAS300 - AC fan coil

FHS240 - HP fan coi TXV standard TXV standard 4-row coil

- 4-row coil Optional highstatic fan motor Ontional high static fan motor Painted or unpainted

- Painted or unpainted cabinet cabinet - Multi-position Multi-position - 5 - 70 kW - 5 - 70 kW electric heat electric heat

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 (DDE) efficiency standard of 2018.

208/230/460

or 575 volts

(Horizontal) **CAVT (Vertical)** - R-410A - R-22 - Direct-expansio

**CASED COILS** 

evaporator coils - 3/8" coil tubing - Shipped with nitrogen holding charge

# PACKAGE GAS/ELECTRICS

- Scroll compressor

- Convertible

### PGS4, PGD4 - FNFRGY STAR - Up to 14.0 SEER. 11.5 EER

Up to 16.0 SEER.

Up to 12.5 EER 2-stage scroll

airflow design 2-stage gas hea Stainless steel Stainless steel tubular heat exchanger (PGS4 High-efficiency Aluminized steel tubular heat

motor - Accessory filter racks support 2" filters

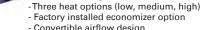
 Hail quard tight-wire grille - 208/230 volts single- and 3-phase

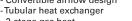
exchanger (PGD4) Direct spark ignition - High-efficiency ECM blower motor Accessory filter

racks support 2" filters - 208/230 volts single- and 3-phase 460 volts

RGS090, RGS102, RGS120, RGS150, RGS180 RGS089, RGS100, RGS119 RGH073, RGH090, RGH102, RGH120, RGH150

11.5 - 12.2 FFR. Up to 16.0 IFFE 2-stage cooling Medium and high-static fan motor options





- 2-stage gas heat - Dual scroll compressors

RGH240, RGH300

- ENERGY STAR

- 81% AFUE

- 208/230 volts 3-phase only, 460 or 575 volts

- 11.2 - 12.0 FFR. Up to 13.8 IFFR

Dedicated vertical airflow

-Tubular heat exchanger

Medium and high-static

indoor fan options

Three heat options

- Factory installed

(low, medium, high)

economizer option

- Scroll compressors

- 2-stage cooling with

and controls

independent circuits

- 208/230 volts 3-phase

only, 460 or 575 volts

### 10.8-11.1 EER, Up to 12.8 IEER Medium and high-static fan motor options -Three heat options (low, medium, high)

RGH036, RGH048,

RGH060, RGH072

**ENERGY STAR** 

13.0 EER

Up to 15.6 SEER

Medium and high-

Three heat options

Factory installed

- Convertible

-Tubular heat

exchanger

- 208/230, 460

or 575 volts

airflow design

- 2-stage gas heat

Scroll compressor

(low, medium, high)

economizer option

static fan motor

Factory installed economizer option Convertible airflow design

RGH243, RGH303

- ENERGY STAR

- 81% AFUE

-Tubular heat exchanger - 2-stage gas heat Dual scroll compressors

- 10.5 - 11.5 EER, Up to 13.2 IEER

Dedicated horizontal airflow

-Tubular heat exchanger

Medium and high-static

indoor fan options

-Three heat options

- Factory installed

economizer option

Scroll compressors

2-stage cooling with

and controls

independent circuits

208/230 volts 3-phase

only, 460 or 575 volts

(low, medium, high)

- 2-stage cooling - 208/230 volts 3-phase only, 460 or 575 volts - 208/230 volts 3-phase only, 460 or 575 volts

- 16.0 SEER, 12.2 EER - 14.0 SEER

- Up to 11.6 EER

static fan motor

Factory installed

- 14.0 SEER

- Only available in

575 volt models

economizer option

- Convertible airflow

Medium and high-

New X-Vane Fan™

- 2-stage gas heat

static fan motor

Factory installed

- 2-stage cooling

single- and 3-phase

- 208/230 volts

460 volts

economizer option

Technology

Single-stage cooling - Medium and high-

- 9.8 - 10.8 EER, Up to 12.7 IEER - 80 - 81% AFUF

Dedicated vertical airflow -Tubular heat exchanger

-Three heat options (low, medium, high) Factory installed

economizer option Scroll compressors - 2-stage cooling with

and controls 208/230 volts 3-phase only, 460 or 575 volts

### RGS210, RGS240, RGS300, RGS336 RGS303, RGS333 - 9.8 - 10.8 EER

- 80 - 81% AFUE - Dedicated horizontal airflow

High-static indoor fan option

independent circuits

- 2-stage cooling with independent circuits and controls - 208/230 volts 3-phase

-Tubular heat exchange

- High-static indoor

-Three heat option:

- Factory installed

(low, medium, high)

economizer option

- Scroll compressors

only, 460 or 575 volts

fan option

- 11.0 EER, 15.0 IEER

New X-Vane Fan<sup>™</sup>

Medium and high

static fan motor

- Factory installed

- 2-stage cooling

460 volts

RGS072

economizer option

Convertible airflow

single- and 3-phase.

- 11.0 EER, 12.7 IEER

- Only available in

575 volt models

Technology

options

Single-stage cooling - Scroll compressor

single- and 3-phase, - 208/230 volts

2-stage/single circuit cooling capacity

Factory installed economizer option

Convertible airflow design

Tubular heat exchanger

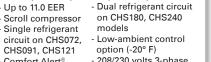
- 2-stage gas heat

- 2-stage cooling

Medium and high-static fan motor options

Three heat options (low, medium, high)

## CHS072, CHS091, CHS121, CHS180, CHS240



### PACKAGE HEAT PUMPS

- FNFRGY STAR Up to 15.5 SEER. 12.5 EER

compressor High-efficiency ECM blower

motor Accessory filter racks support 2" filters

- Hail guard - 208/230 volts

3-phase

tight-wire grille single- and

RHH073, RHH090,

RHH102 RHH120

**ENERGY STAR** 

Up to 12.3 EER,

12.9 - 15.6 IEEF

2-stage cooling

static fan motor

Factory installed

airflow design

compressors

economizer option

208/230 volts 3-phase

only, 460 or 575 volts

options

- Convertible

- Dual scroll

Medium and high

- 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

RHS090, RHS102

- 11.2 FFR. 12.5 IFFR

Medium and high-

static fan motor

- Factory installed

460 or 575 volts

ontions

- Convertible

Convertible airflow desian

Up to 15.8 SEER - Factory installed 11.7 - 12.8 EER Single-stage cooling Medium and high-stati

fan motor options Factory installed economizer option

 Scroll compressor 208/230, 460 or 575 volts

RHH036, RHH048

RHH060, RHH072

**ENERGY STAR** 

- 14.0 SEER, 8.0 - 8.2 HSPE - 11.1 FFR. 12.7 IFFR Medium and high-static Medium and high-static fan motor options fan motor options

- Factory installed economizer option Convertible airflow - Convertible airflow

Single-stage cooling - 208/230 volts 3-phase 208/230 volts single- and

only, 460 or 575 volts 3-phase, 460 or 575 volts.

> RHS181, RHS240 RHS183, RHS243



12.0 - 12.5 IEER Medium and

high-static fan motor options - Factory installed

RHS120, RHS150

- 10.6 - 11.0 EER.

economizer option Convertible airflow design

airflow design compressors Dual scroll

- 2-stage cooling compressors - 208/230 volts 2-stage cooling 208/230 volts 3-phase 3-phase only,

only, 460 or 575 volts

- Scroll compressors

- 2-stage cooling with independent circuits and controls

10.6 - 10.8 FFR.

Dedicated vertical

- Medium and high-

static fan motor

12.0 IEER

airflow

- 208/230 volts

### - Factory installed economizer option Scroll compressor - 2-stage cooling with independent circuits

- 10.6 - 10.8 FFR

airflow

options

Dedicated horizonta

Medium and high

static fan motor

Factory installed

- 208/230 volts

### 3-phase only, 460 or 575 volts

### 3-phase only. 460 or 575 volts

## SPLIT CONDENSING UNITS

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



### Horizontal discharge with narrow footprint

### 14.0-15.0 SEER depending on indoor combination\*\*\*



### 13.0 SEFR





### CAS180, CAS181. - 11.2 EER

CAS240, CAS241 - Dual scroll compressors - 11.0 EER Scroll compressor

Single or dual refrigerant - Low-ambient contro Comfort Alert® diagnostics

Low-ambient control option (-20° F)

# CAS072 - 11.5 EER

CAS091, CAS121, CAS151 - Up to 11.2 EER

208/230 volts 3-phase only, 460 or 575 volts

- Comfort Alert® diagnostics - Low-ambient control

Comfort Alert® Single refrigerant circuit diagnostics

option (-20° F)

only, 460 or 575 volts

See www.GoArcoaire.com for the most current and complete warranty certificate and further details. Illustrations and photographs are only representative

### SEER, 8.2 HSPF - Scroll compressor 14.0-15.0 SEER depending Hail guard tight- - 208/230 volts Single refrigerant wire arille single-\* and 15 - 20 ton unit shown circuit on CHS072, Scroll compressor

Scroll compressor 3-phase, 460 volts - 208/230 volts

CHS091 CHS121

Comfort Alert®

 208/230 volts 3-phase only, 460 or 575 volts

# SPLIT HEAT PUMPS



208/230 volts single-

and 3-phase, 460 volts



Minimum 15.4 - 14.0 SFFR



option (-20° F)

Scroll compresso

- 208/230 volts 3-phase only, 460 or 575 volts - 208/230 volts 3-phase only, 460 or 575 volts

208/230 volts 3-phase

or information regarding furnace or fan coil options that can increase the energy efficiency of selected Arcoaire air conditioners (SEER and EER) and heat pumps (SEER, EER and HSPF), refer to www.GoArcoaire.com/Product Information/Combination Ratings Database/Higher SEER Combinations Information Factory installed options (FIOPs) are available on select models of Arcoaire® package rooftops. A full line of commercial accessories is available. See your Arcoaire sales representative for availability Arcoaire® commercial products are covered by the following parts-only limited warranties: • Stainless Steel Heat Exchanger - 15Yrs. (RGH & RGS models only) • Aluminized Steel Heat Exchanger - 10Yrs. • Compressor - 5Yrs. (unless otherwise indicated) • Parts - 1Yr.

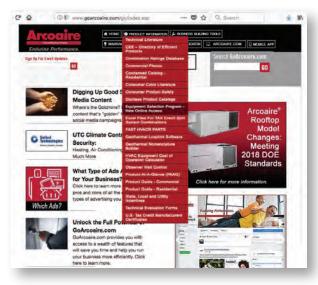
208/230/460

or 575 volts

### A SIMPLER WAY TO CREATE CUSTOMIZED SUBMITTALS:

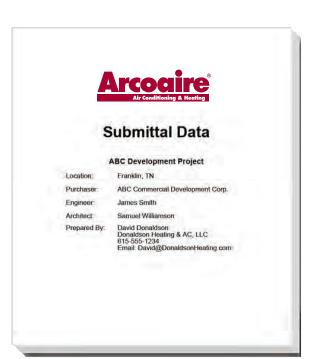


# Online Equipment **Selection Program!**



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.



you need to do is register at GoArcoaire.com by clicking on Product Information > Equipment Selection Program. Or, go to www.icpeqp.com. Just fill out the online form and follow the instructions and you'll be on your way to simplifying the submittal process! Project Name Project Locatio (City, State)

It's easy to get started with the ESP website. All

# Rooftop Energy **Savings Calculator**

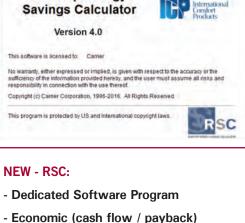
- Compare energy costs and payback performance of rooftop equipment
- For replacement applications
- Evaluate the energy cost savings and payback of replacing old, inefficient equipment
- For new construction applications
- Helps evaluate the energy cost and payback performance of standard vs. high-efficiency equipment or competitor equipment
- Available on HVACPartners under "Products and Solutions"
- It's FREE! Available through your local distributor

							Press (F	13 100 110	_
Job Information			Equipment Information Baseline (Unit 1) Proposed (Unit 2)						
lob Title: Retail shop			Unit Description	Existing Unit		New Proposed Unit			
Job Type Replacement		•	Equipment Type:	Cooling with Gas Heat		Cooling with Gas Heat			
MONES.		=	Manufacturec	Trace		Ī	ICP.		•
iones:		- 7	Model.	Voyager YCD Std Eff (1)	997).	⋾	RGS		
			State	180 (Low Heat)		⋾	180 (Low Heat)		
	-	9	Refrigerant:	R-22		•	R-410s		
Evelerences: # RTUs to Compare, Settings, etc.		Age (yrs):	D Years	100					
ocation informatio	el .		Cooling Capacity		Tens	4		Tomi	
Region	USA		AHRI Cooling Rating		EER	٠		EER	
	-		Capacity Control	2-Stage		٠	2-Stage		
ocator:	Louisiana	-	Heating Capacity  AHRI Heating Rating	203.0	MBH		148.0	MEH	
ONC.	New Orleans IAP	•	Heating Efficiency	-	COP	2	-	COR	
		Indoor Fan Indoor Fan Power	Bat Onve, Medium State, 3Ph  Act Beep		-	Medium Static, 3Ph			
Building Information					2			-	
luliding Type	Office	-	Indoor Fan Control	1-Speed	Dr. in	-	1-Speed	Me.	
wit Peak Clg Load	15.0 Tons		-	Trobato	_	-	Lindaen		-
		Economizer 19			p.				
nergy Prices			DCV (C02) Control:	г			P		
put Data:	Louisians - EIA	*	Purchase Cost (S)	-1		÷	-		
lectric Price (Avg).	0.09100 SAWN		Installation Cost (\$)	9 750					
ecanc Price (Mg).	0.00100 94444		Maint + Repair (Syr)						
Gas Price (Avg): 9.01000 SAICF •		Downtime Loss (S/r )	1250						

- Simple inputs
- Auto-populates if replacement or new construction
- Simulates 8 building types
- Pulls current energy data no guessing
- Uses Hourly Analysis Program (HAP) calculation engine
- Intuitive help screens

Calculates Professional Report	Calcu	lates	Prof	essior	nal R	eport
--------------------------------	-------	-------	------	--------	-------	-------

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

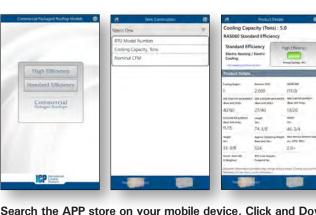


- Replacement Jobs
- **New Construction Jobs**

Rooftop Energy

Custom or Detail (Pick and Click)

....



CD,YCD121C,150E,151B,151C

Windship

# Get the ICP® 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 Arcoaire or competitive equipment, or desired unit specifications, and obtain the optimal Arcoaire model for their requirements.

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



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





### Search the APP store on your mobile device, Click and Download:

Google Play Store - https://play.google.com/store/apps/details?id=com.carrier.icprooftops

iPhone - https://itunes.apple.com/us/app/icp-rooftops-for-iphone/id1096805695?mt=8

iPad - https://itunes.apple.com/us/app/icp-rooftops-for-ipad/id1096805959?mt=8

Windows Store - https://www.microsoft.com/en-us/store/apps/icp-rooftops/9nblggh4x98g

Android and Google Play are trademarks of Google Inc.

Apple, iOS and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

Microsoft is a registered trademark of Microsoft Corporation in the United States and/or other countries

