





**iFLOW HEAT PUMP SUBMITTAL DATA SHEET**

iFLOW Cased A-Coil (IDU) & Heat Pump (ODU) System	
Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____

<b>Set Code</b>	22023110000770
Indoor unit code	22023111000492
Outdoor unit code	22023116000103
<b>Set Model</b>	
Indoor unit model	70C4248CA
Outdoor unit model	70HP1R48A
<b>Certified</b>	
AHRI	
UL	



SYSTEM PERFORMANCE DATA			
<b>Power supply</b>			
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph,	60Hz
Voltage Range	(V)	187-253	
<b>Electrical</b>			
Minimum circuit ampacity(Outdoor)	(A)	34.0	
Max.fuse(Outdoor)	(A)	50.0	
Connection wiring		N/A	
<b>Cooling</b>			
Capacity	(Btu/h)	48000(12000~48000)	
Power Input	(W)	5650(540~5330)	
Current	(A)	22.3(3~22.5)	
SEER2	(Btu/W)	14.3	
EER2	(Btu/W)	8.6	
<b>Heating</b>			
Capacity	(Btu/h)	51000(11000~54000)	
Power Input	(W)	5150(710~5580)	
Current	(A)	22(3.6~22.5)	
HSPF2-4	(Btu/W)	8.3	
HSPF2-5	(Btu/W)	6.6	
COP	W/W	2.90	
Heat at 17F(H32)	(Btu/h)	30500	
Heat at 5F(H42)	(Btu/h)	28000	
COP at 5F(H42)	W/W	1.80	

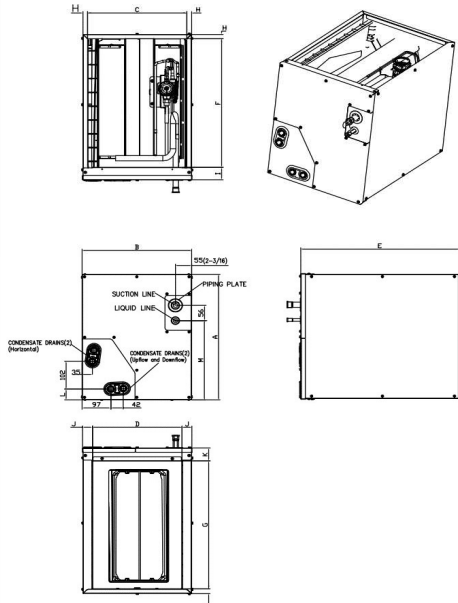
INDOOR UNIT DATA		
IRV	inch³3	158.00
Air flow	SCFM	1015
Pressure drop	Pa	70.00
	In. wg.	0.28
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	//1029.41///
Indoor noise level (Hi/Med/Lo)	[dB(A)]	0/0/0
Dehumidification	(LH)	6.94/17.676
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	20.98x20.98x23.98
	(mm)	533x533x609
Packing(WxDxH)	(inch)	24.02x26.18x26.38
	(mm)	610x665x670
Net/Gross weight	(lbs.)	66.58/77.16
	(kg)	30.2/35

REFRIGERANT PIPE DATA		
Throttle type	Indoor unit	TXV
	Outdoor unit	EEV for heating
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	165.79
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.69
Additional charge for each m	(g/m)	65.0
Liquid side/ Gas side(indoor)	(inch)	3/8" / 3/4"
	(mm)	9.52/19
Liquid side/ Gas side(outdoor)	(inch)	3/8" / 3/4"
	(mm)	9.52/19
Max. pipe length	(ft)	213.3
	(m)	65.0
Max. difference in level	(ft)	98.4
	(m)	30.0
Connection method		Flared
Indoor(cooling)	(Deg. °F)	60~90
	(Deg. °C)	16~32
Indoor(heating)	(Deg. °F)	32~86
	(Deg. °C)	0~30
Outdoor(cooling)	(Deg. °F)	5~122
	(Deg. °C)	-15~50
Outdoor(heating)	(Deg. °F)	-13~75
	(Deg. °C)	-25~24

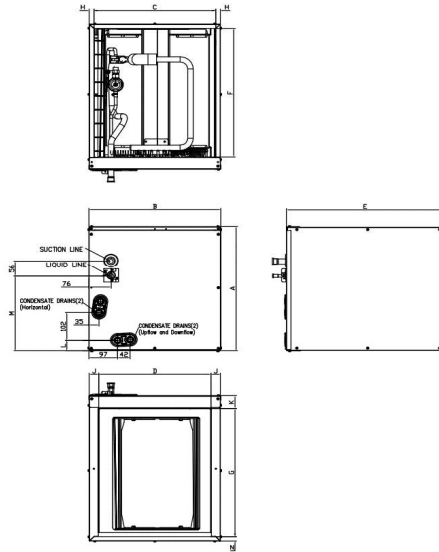
OUTDOOR UNIT DATA		
<b>Compressor</b>		
Type		ROTARY
Model		KTQ420D1UMU
Brand		GMCC
Capacity	(Btu/h)	46744
Input	(W)	3700
Rated current (RLA)	(A)	24
Refrigerant oil/oil charge	(ml)	VG74/1400
<b>Outdoor fan motor</b>		
Model		ZKFN-85-8-22-5
Qty		2
Input	(W)	126.0
Output	(W)	85
RLA	(A)	2.4
Speed	(r/min)	850/750/650
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	4500
Outdoor noise level	[dB(A)]	63.0
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	37.48x16.34x52.48
	(mm)	952x415x1333
Packing (WxDxH)	(inch)	43.11x19.49x58.27
	(mm)	1095x495x1480
Net/ Gross weight	(lbs.)	217.59/248.68
	(kg)	98.7/112.8

Indoor unit dimension

NEW PANEL STYLE

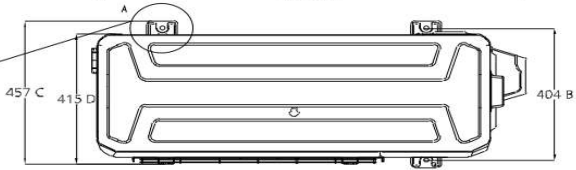
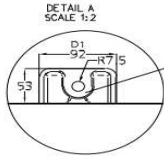
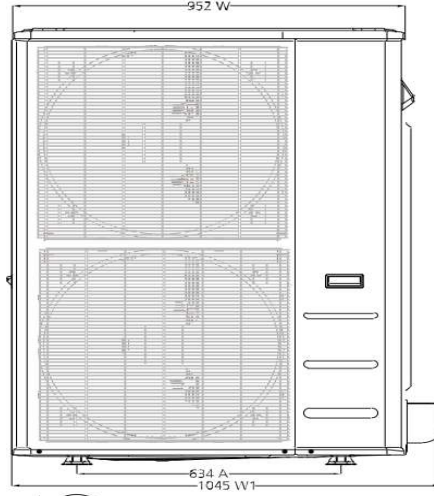
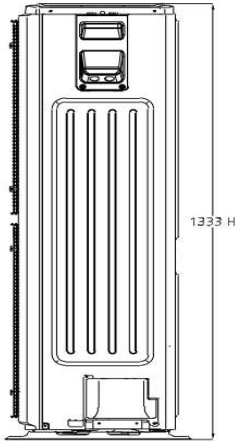


OLD PANEL STYLE



Dimensions	KV-14F-A		KV-14F-B		KV-17F-A		KV-17F-B		KV-21F-A		KV-21F-B		KV-24F-A	
	NEW PANEL STYLE		NEW PANEL STYLE		NEW PANEL STYLE		OLD PANEL STYLE		OLD PANEL STYLE		NEW PANEL STYLE		OLD PANEL STYLE	
Model(Btu/h)	18K/20K/22K/24K		30K (48K)		30K/36K		18K/24K		30K/36K/48K		48K		60K	
A Model Height	18	457	23-1/2	598	23-1/2	599	18	461	24	609	28	711	28	711
B Model Width	14-1/2	368	14-1/2	368	17-1/2	445	17-1/2	445	21	533	21	533	24-1/2	622
C Supply Air Opening Width	13-1/4	336	13-1/4	336	16-3/16	411	16-3/16	411	19-3/4	502	19-3/4	502	23-1/4	591
D Return Air Opening Width	12	303	12	303	15-1/8	384	15-1/8	384	19-1/2	496	19-1/2	496	23	585
E Model Depth	21	534	21	534	21	533	21	533	21	533	21	533	21	533
F Supply Air Opening Depth	18-5/8	473	18-5/8	473	18-5/8	473	18-5/8	473	18-5/8	473	18-5/8	473	18-5/8	473
G Return Air Opening Depth	18-1/2	471	18-1/2	471	18	458	18	458	18-1/2	470	18-1/2	470	18-1/2	470
H Supply Air Opening Side Clearance	5/8	16	5/8	16	5/8	16	5/8	16	5/8	16	5/8	16	5/8	16
I Supply Air Opening Front Clearance	1-3/4	45	1-3/4	45	1-3/4	45	1-3/4	45	1-3/4	45	1-3/4	45	1-3/4	45
J Return Air Opening Side Clearance	5/8	16	5/8	16	1-3/16	30	1-3/16	30	3/4	19	3/4	19	3/4	19
K Return Air Opening Front Clearance	1-13/16	46	1-13/16	46	1-13/16	46	1-13/16	46	1-13/16	46	1-13/16	46	1-13/16	46
L Condensate Drains Height	1-9/16	40	1-9/16	40	1-7/16	37	1-7/16	37	2-1/8	54	2-1/8	54	2-1/8	54
M Liquid Line Height	11-1/2	292	11-1/2	292	16-1/2	418	10-7/8	276	16-5/16	414	21	533	20-1/4	514
N Return Air Opening Side Clearance	3/4	19	3/4	19	3/4	19	1-3/16	30	3/4	19	3/4	19	3/4	19

Outdoor unit dimension





## IFLOW

Central Air Conditioning Heat Pump (HP)

Singlezone Ducted, Centrally Ducted

AHRI Cert #+: 217729803

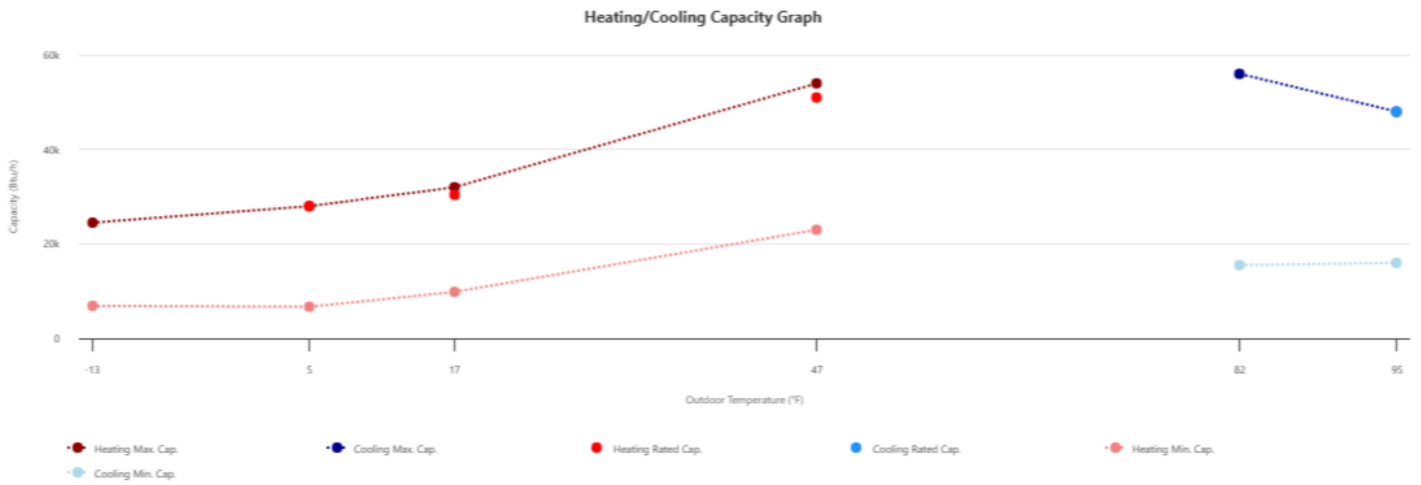
Outdoor Unit Model #+: 70HPIR48A

Indoor Model #+: 70C4248CA

🔥 Maximum Heating Capacity (Btu/h) @5°F: 28,000

🔥 Rated Heating Capacity (Btu/h) @47°F+: 51,000

❄️ Rated Cooling Capacity (Btu/h) @95°F+: 48,000



## Information Tables

Brand	IFLOW
Series	
Ducting Configuration	Singlezone Ducted, Centrally Ducted
AHRI Certificate #*	217729803
Outdoor Unit Model #*	70HPIR48A
Indoor Model #*	70C4248CA
Indoor Unit Type*	
Furnace Model #	
EER*	
SEER*	
HSPF (Region IV)*	
EER2*	8.6
SEER2*	14.3
HSPF2 (Region IV)*	8.3
HSPF2 (Region V)	6.6
ENERGY STAR V6.1	✘
ENERGY STAR V6.1 Cold Climate	✘
ENERGY STAR V5.0	✘
Federal Tax Credit Eligibility North	
Federal Tax Credit Eligibility South	
CEE Tier 1 Path A (2025)	✘
CEE Tier 1 Path B (2025)	✘
Capacity Maintenance (Rated 17°F/Rated 47°F)	59%
Capacity Maintenance (Rated 5°F/Rated 47°F)	54%
Capacity Maintenance (Max 5°F/Rated 47°F)	54%
Variable Capacity	✔
Integration	
Connectivity	
Operational Diagnostics	
Refrigerant	R-410A
Created At	2025-09-24
Updated At	2025-09-24
Sold In*	USA, Canada

## Performance Specs

Heating / Cooling	Outdoor Dry Bulb	Indoor Dry Bulb	Unit	Min	Rated*	Max
Cooling	95°F	80°F	Btu/h*	16,000	48,000	48,000
			kW	1.76	5.58	5.65
			COP	2.66	2.52	2.49
Cooling	82°F	80°F	Btu/h*	15,500	-	56,000
			kW	0.97	-	4.59
			COP	4.68	-	3.58
Heating	47°F	70°F	Btu/h*	23,000	51,000	54,000
			kW	1.2	5.15	5.75
			COP	5.62	2.9	2.75
Heating	17°F	70°F	Btu/h*	9,850	30,400	32,000
			kW	1.3	4.05	4.61
			COP	2.22	2.2	2.03
Heating	5°F	70°F	Btu/h*	6,700	28,000	28,000
			kW	1.15	4.56	4.56
			COP	1.71	1.8	1.8
Heating	-13°F	70°F	Btu/h*	6,900	-	24,500
			kW	1.19	-	4.96
			COP	1.7	-	1.45

# Certificate of Product Ratings

AHRI Certified Reference Number : 217729803    Date : 12-10-2025    Model Status : Active

AHRI Type : HRCU-A-C (Split System: Heat Pump with Remote Outdoor Unit with No Indoor Fan --Air Source)

Outdoor Unit Brand Name : iFLOW

Outdoor Unit Model Number (Condenser or Single Package) : 70HPIR48A

Indoor Unit Model Number (Evaporator and/or Air Handler) : 70C4248CA

The manufacturer of this iFLOW product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 48000

SEER : 14.00

EER (A2) - Single or High Stage (95F) : 9.15

Heating Capacity (H12) - Single or High Stage (47F) : 51000

HSPF (Region IV) : 9.40

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A<sub>Full</sub>) – Single or High Stage (95F), btuh : 48000

SEER2 : 14.30

EER2 (A<sub>Full</sub>) – Single or High Stage (95F) : 8.60

Heating Capacity (H1Nom) - Multi/Variable Stage (47F) : 51000

HSPF2 (Region IV) : 8.30

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†'Active' Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

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