	COM	IBO P	ERFO	RMANCE	SPECI	FICATION	SUMMARY (Ref. C	CSA Standard P.9)-11)	
Testing Agency: Exova System Integrator: iFLOW HVAC Inc. 29 Howden Road Toronto, ON M1R 3C7			iFLOW HVAC Inc.				Model Number	: <u>N/A</u>		
			-			Nameplate Information	: 120 Volts	N/A Amps		
					Nominal Burner Input		150,000 Btu/hr			
Date First Issued: October 10, 2014					Fuel Type	: Nat. Gas Nat. Ga	as / Propane / Oil			
Date Reissued: April 17,2019 Rationale: To include missing info										
PERFORMANCE RATING										
Thermal Performance Factor (TPF) 0.94										
					trical Cons	sumption (AE)	1,752 kWh/y			
					Function	n-Based Perfe	ormance Ratings			
Efficiency Ratings								Maximum Capacity Ratings and Related Information		
Composite Space Heating Efficiency (CSHE) Water Heating Performance Factor (WHPF)						94 (%)	Space heating (all ratings	,	40.0 134	
		_	mance Fac	o <u>r (WHPF)</u> 0.96 97 (%)		Capacity Airflow	36,315 <i>Btu/hr</i> 930 <i>SCFM</i>	10.6 kW 439 L/s		
Recovery Efficiency Thermal standby loss - Circ fan off			off	,		ESP (Return)	930 SCFW 0.2 " w.c.	439 L/s 50 Pa		
Thermal standby loss - Circ fan on					see comme		ESP (Supply)	0.2 " w.c.	50 Pa	
							Return air temperature		21.6 °C	
Space H	leating Part L	oad Effic	iency Rat	ings			Air temperature rise		20.1 °C	
	Part Load Factor Net			Average		Circulating Blower	Entering water temperat	ture to coil	61.8 °C	
	(PLF)		,	Electricity Us		ecticity Use*	Water flow rate	3.1 USGPM	11.5 L/min	
	@ PLF 1		- (/		W 294 W					
_	@ PLF 0.4		308			284 W	DHW One-Hour Delivery I	J ()		
@ PLF 0.15 91 (%) 164 * measured when circulation blower running				er running	1 W 286 W		OHR - no call for space OHR - concurrent call for	•	1,116 L 1,094 L	
				or ranning					1,001 2	
Concurrent Space & DHW Test Results							Additional Electrical Rat	ings		
Water draws at 49 ±3°C with & without concurrent call for					or heat within ±3°C tolerance		Standby power (P(circ)) 102 W Standby power (P(cont)) 13 W			
Flow Time to reach temperature Time w (L/min) (minutes)				Time wit			Standby power (P(cont))	Daily electricity use for water heating (E _{24h-SUT})		
(L/min)	with		hout	with	(minutes)	ithout	Annual electricity use for wa		0.18 kWh 66 kWh	
	heating call			heating call		ting call	Annual electricity use for v	water neating (AEDHW)	OO KVVII	
3	1.2	heating call 1.2		indefinite		lefinite				
15			indefinite	indefinite						
Description of Major Components of Packaged Combo										
Packaged System Components										
Heat Generator (HG) make, model: Navien, NPE 180A										
						FLOW, iFL-1435PO (Also applies to iFLH140000, iFLH14000W, iFLH14000D)				
Circulating blower motor make, model, size, type: Genteg, 5SBA39G						-	• •	, , , , , , , , , , , , , , , , , , , ,		
Circulator make / model and location: Navien, integral to heat gu							erator			
	al controls exte				None					
Automat				erature while sp		,	Υ			
	Related type,	make and	d model nu	mber:	Navien 'Co	mfortAir+' kit, Pl	NBD 000001			
Intercon	nect piping (ler	ngth, nom	n.dia., insul	ation):	26 ft. equiv	alent length, 3/4'	" (nominal) PEX, R4 insulation			
Other: Thermostatic mixing valve c/w check valves, Honeywell AM101-US-1, set to 120°F (49°C) for									°C) for DHW	
Outdoor temperature sensor - included in 'ComfortAir+' kit										
					DHW flow	switch - included	in 'ComfortAir+' kit			
							1			
_	ency Comme									
	•		,	9°C) for DHW te		Filter use during testing	Yes	x No		
Water h	eater temperat	ure progr	ammed to	145°F (63°C) for	r space hea	Filter rating		MERV		
Pump e	xercise sequen	nce: 0.5 m	inutes eve	ry 24-hrs						
Pump exercise sequence does not initiate burner operation							Segregated DHW Syster	m Yes	x No	
Circulating blower has a 5 second 'On' delay							Water Circulation	x Yes	No	
Circulating blower has a 30 second ramp to 'Off' delay										
All contr	ols set to facto	ry default	unless oth	erwise specified	d		DHW Priority	x Yes	No	
No stora	age tank - therr	mal stand	by test not	required						
Conversions:							Reference Re	•		
249 Pascals = 1" of Water						1 USG = 3.785 L	14-06-M0396-	14-06-M0396-1 Rv2		