Testing Agency:						Model Number:	N/A	
System In	tegrator:		HVAC Inc.					
		Toronto.	den Road			Nomaniata Information	120 Volts	N/A Amps
		M1R 3C				Nameplate Information: Nominal Burner Input:	43.9 kW	N/A Amps 150,000 Btu/hr
Date First Issued: October 10, 2014						Fuel Type:		as / Propane / Oil
Date Reissued: April 17, 2019						71		
R	ationale:	To include	de missing info					
				PERFORM	IANCE	RATING		
				rformance Factor (7	-	0.91 1,054 kWh/y		
				Function-Based	` ,			
Efficiency Ratings						Maximum Capacity Rating	gs and Related Informati	on
Composite S	Composite Space Heating Efficiency (CSHE)				(%)	Space heating (all ratings b	pelow are at a PLF of 1)	
·	_	mance Fac	ctor (WHPF)	0.96		Capacity	25,188 Btu/hr	7.4 kW
Recovery Efficiency			,,		(%)	Airflow	931 SCFM	439 L/s
Thermal sta	-				W	ESP (Return)	0.2 " w.c.	50 Pa
i nermai sta	Thermal standby loss - Circ fan on				W	ESP (Supply) Return air temperature	0.2 " w.c.	50 Pa 22.0 °C
Space Heating Part Load Efficiency Ratings						Air temperature Air temperature rise		13.9 °C
Part Load Factor		<u> </u>	Average	Circulating Blo	wer	Entering water temperatu	re to coil	49.5 °C
(PLF)	I Net Etticie		Electricity Us			Water flow rate 3.1 USC		11.6 L/min
@ PLF 1	9	8 (%)	424 \		W	-		
@ PLF 0.4	LF 0.4 92 (%)		180 \	V 298	W	DHW One-Hour Delivery Rating (OHR)		
@ PLF 0.15 82 (%)			86 W 284 W		OHR - no call for space heating		1,116 L	
* measured when circulation blower running						OHR - concurrent call for space heating		1,094 L
Concurrent Space &	DHW Tes	t Results				Additional Electrical Ratir	ngs	
Vater draws at 49 ±3°C with & without concurrent call for			ncurrent call for h	r heat		Standby power (P(circ))	-	102 W
				within ±3°C tolerance		Standby power (P(cont))		13 W
(L/min) (minutes)				(minutes)		Daily electricity use for water heating (E _{24h-SUT})		0.18 kWh
with	wit	hout	with	without		Annual electricity use for wa	ater heating (AE _{DHW})	66 kWh
heating call	1	ng call	heating call	heating call				
3 1.2 15 0.4	l l	1.2).4	indefinite indefinite	indefinite indefinite				
10 0.4	,	J. T	indefinite	macimile				
			Descripti	on of Major Con	nponer	nts of Packaged Combo)	
Packaged System Co	•		_					
Heat Generator (HG) make, model:				Navien, NPE 180A				
Air Handler (AH) make, model:				iFLOW, iFL-1425P0 (Also applies to iFLH140000, iFLH14000W, iFLH14000D)				
Circulating blower mot	model, size	e, type:	Genteq, 5SBA39GL, 1/2 HP, Eon ECM					
Circulator make / model and location:				Navien, integral to heat generator				
Additional controls ext	ernal to H	G and AH:	: 1	None				
Automatic means for a	diueting	water temp	verature while en	ace heating (V/N):		Υ		
Related type,				Navien 'ComfortAir'	' kit. PNE			
			<u> </u>		,			
Interconnect piping (le	ngth, non	n.dia., insu			•	nominal) PEX, R4 insulation		
Other:	Other: Thermostatic mixing valve c/w ch						101-US-1, set to 120°F (49	9°C) for DHW
			(Outdoor temperature	sensor -	included in 'ComfortAir+' kit		
			ו	DHW flow switch - in	cluded in	'ComfortAir+' kit		
Toot Agency Comme	nte:							
Test Agency Comments:						Eiltor uso during tooting	Voo	y Na
Water heater temperature set to 120°F (49°C) for DHW tests						Filter use during testing	Yes	x No
Water heater temperature programmed to 123°F (51°C) for space heating (PLF=1).						Filter rating		MERV
Pump exercise sequence: 0.5 minutes every 24-hrs								
Pump exercise sequence does not initiate burner operation						Segregated DHW System		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 controls set to factor	ry default	unless oth	nerwise specified			DHW Priority	x Yes	No
No storage tank - there	mal stand	by test not	required				<u> </u>	
Conversions:							Reference Re	•
249 Pascals = 1" of Water					1 USG = 3.785 L	14-06-M0396-2 Rv2		