

TECHNICAL DATA



YUKON R – 4-PIPE REVERSIBLE VERSION

Multi-purpose 4-pipe unit (cooling and heating) with remote gas cooler/evaporator.

The unit is equipped with two separate heat exchangers for the production of chilled and hot water simultaneously or independently, ensuring the maximum operating flexibility and energy efficiency. The unit can also be equipped with an additional heat exchanger for Domestic Hot Water (6-pipe version). The remote gas cooler is reversible, that is it can also work as evaporator; it is connected to the unit through 2 pipes only, greatly simplifying the installation. For the bigger models, the unit is coupled to two reversible gas cooler in parallel.

YUKON R		0111	0241	0302	0402	0533	0643	0754
Cooling capacity ^{(1) (2)}	kW	34	75	93	122	162	194	230
Power consumption ^{(1) (2)}	kW	15	33	40	53	70	84	98
EER ^{(1) (2)}	-	2,29	2,30	2,33	2,30	2,34	2,30	2,34
Water flow rate ^{(1) (2)}	Kg/s	2,02	4,46	5,54	7,30	9,70	11,57	13,71
Water pressure drop ^{(1) (2)}	kPa	17,9	36,3	10,9	18,1	30,1	23,6	39,7
Water connections	"	1.1/2" ISO	2" ISO	2.1/2" ISO	2.1/2" ISO	3" Flanged	4" Flanged	4" Flanged
Heating capacity 35/50 ^{(2) (4)}	kW	34	76	93	123	163	196	231
Power consumption ^{(2) (4)}	kW	14	30	38	50	66	79	93
COP ^{(2) (4)}	-	2,50	2,50	2,50	2,50	2,50	2,50	2,50
Water flow rate ^{(2) (4)}	Kg/s	0,54	1,20	1,49	1,97	2,60	3,12	3,67
Water pressure drop ^{(2) (4)}	kPa	3,7	6,0	9,1	11,0	18,7	13,8	18,9
Water connections	"	1" ISO	1.1/4" ISO	1.1/4" ISO	1.1/4" ISO	1.1/2" ISO	2" ISO	2" ISO
Heating capacity 30/35 ^{(2) (5)}	kW	35	78	96	127	168	201	237
Power consumption ^{(2) (5)}	kW	12	27	34	45	59	71	84
COP ^{(2) (5)}	-	2,81	2,84	2,83	2,83	2,84	2,82	2,84
Water flow rate ^{(2) (5)}	Kg/s	1,67	3,71	4,58	6,06	8,02	9,61	11,33
Water pressure drop ^{(2) (5)}	kPa	34,9	9,8	14,5	12,9	17,9	18,7	21,8
Water connections	"	1.1/4" ISO	2" ISO	2" ISO	2.1/2" ISO	2.1/2" ISO	3" Flanged	4" Flanged
No. of compressors		1	1	2	2	3	3	4
No. of circuits		1	1	1	1	1	1	1
Lenght ⁽⁷⁾	mm	1500	1500	3000	3000	4000	4000	4500
Width ⁽⁷⁾	mm	1060	1060	1150	1150	1250	1250	1400
Height ⁽⁷⁾	mm	1900	1900	2500	2500	2500	2500	2500
Weight ⁽⁷⁾	Kg	900	950	2700	2700	3400	3400	4000
Sound power	dB(A)	75	78	79	80	81	82	83
Sound pressure ⁽⁸⁾	dB(A)	47	50	51	52	53	54	55
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50

(1) Water temperature in/out: 12°C / 7°C. Outdoor air temperature: 35°C

(2) Performances according to EN 14511

(3) Water temperature in/out: -4°C / -8°C with 35% ethylene glycol. Outdoor air temperature: 35°C

(4) Water temperature in/out: 35°C / 50°C. Outdoor air temperature: -5°C

(5) Water temperature in/out: 30°C / 35°C. Outdoor air temperature: -5°C

(6) Water temperature in/out: 35°C / 65°C. Outdoor air temperature: -5°C

(7) With cladding

(8) Sound pressure level 10m with directivity factor Q=2

YUKON R		0844	1055	1215	1386	1586	1744
Cooling capacity ^{(1) (2)}	kW	271	319	366	420	475	531
Power consumption ^{(1) (2)}	kW	119	139	163	186	216	250
EER ^{(1) (2)}	-	2,28	2,29	2,25	2,26	2,20	2,12
Water flow rate ^{(1) (2)}	Kg/s	16,20	19,04	21,86	25,10	28,39	34,09
Water pressure drop ^{(1) (2)}	kPa	39,8	31,1	39,9	24,9	30,5	37,3
Water connections	"	4" Flanged	5" Flanged	5" Flanged	5" Flanged	6" Flanged	6" Flanged
Heating capacity 35/50 ^{(2) (4)}	kW	275	322	373	427	484	544
Power consumption ^{(2) (4)}	kW	111	131	152	174	197	216
COP ^{(2) (4)}	-	2,50	2,50	2,50	2,50	2,50	2,50
Water flow rate ^{(2) (4)}	Kg/s	4,38	5,14	5,94	6,80	7,71	8,66
Water pressure drop ^{(2) (4)}	kPa	20,8	14,7	19,4	16,3	16,3	10,2
Water connections	"	2" ISO	2.1/2" ISO	2.1/2" ISO	2.1/2" ISO	2.1/2" ISO	3" Flanged
Heating capacity 30/35 ^{(2) (5)}	kW	283	331	383	438	497	571
Power consumption ^{(2) (5)}	kW	100	117	136	156	177	200
COP ^{(2) (5)}	-	2,83	2,82	2,81	2,82	2,81	2,86
Water flow rate ^{(2) (5)}	Kg/s	13,50	15,82	18,28	20,95	23,75	27,27
Water pressure drop ^{(2) (5)}	kPa	28,3	16,9	14,4	25,9	22,1	22,2
Water connections	"	4" Flanged	4" Flanged	4" Flanged	5" Flanged	5" Flanged	5" Flanged
No. of compressors		4	5	5	6	6	4
No. of circuits		1	1	1	1	1	1
Lenght ⁽⁷⁾	mm	4500	5700	5700	5800	5800	6700
Width ⁽⁷⁾	mm	1400	1450	1450	1550	1550	1750
Height ⁽⁷⁾	mm	2500	2500	2500	2500	2500	2500
Weight ⁽⁷⁾	Kg	4000	5200	5200	7000	7000	8000
Sound power	dB(A)	84	84	85	86	86	91
Sound pressure ⁽⁸⁾	dB(A)	56	56	57	58	58	63
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50

(1) Water temperature in/out: 12°C / 7°C. Outdoor air temperature: 35°C

(2) Performances according to EN 14511

(3) Water temperature in/out: -4°C / -8°C with 35% ethylene glycol. Outdoor air temperature: 35°C

(4) Water temperature in/out: 35°C / 50°C. Outdoor air temperature: -5°C

(5) Water temperature in/out: 30°C / 35°C. Outdoor air temperature: -5°C

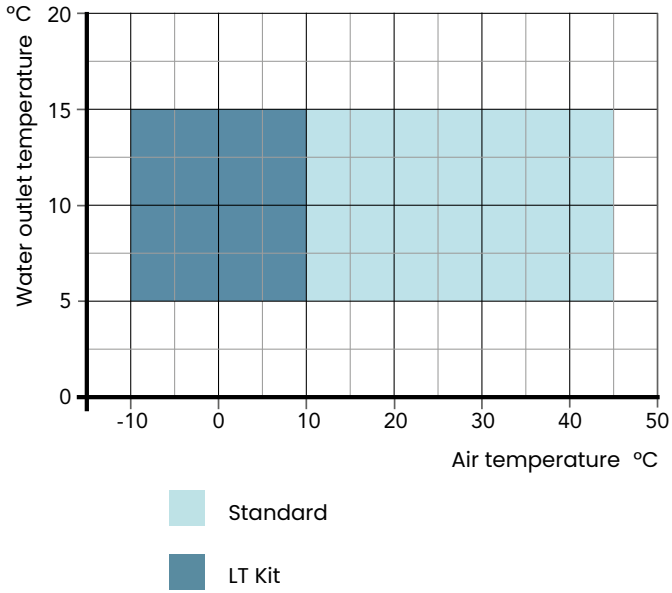
(6) Water temperature in/out: 35°C / 65°C. Outdoor air temperature: -5°C

(7) With cladding

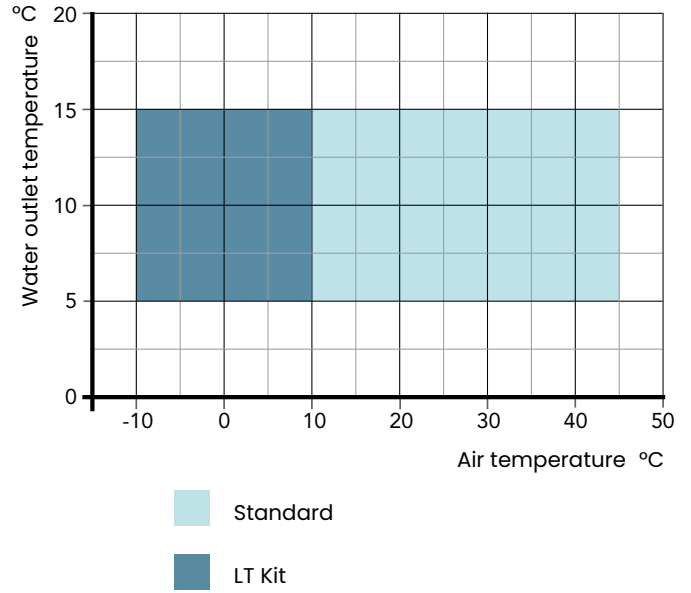
(8) Sound pressure level 10m with directivity factor Q=2

OPERATING LIMITS

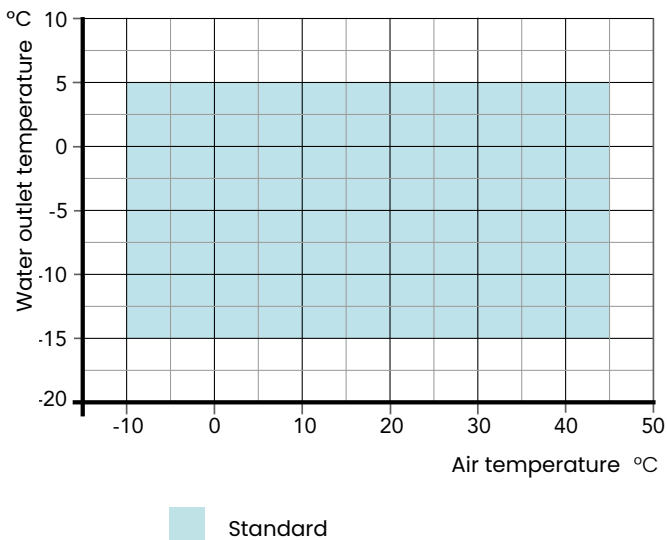
YUKON C - Comfort version



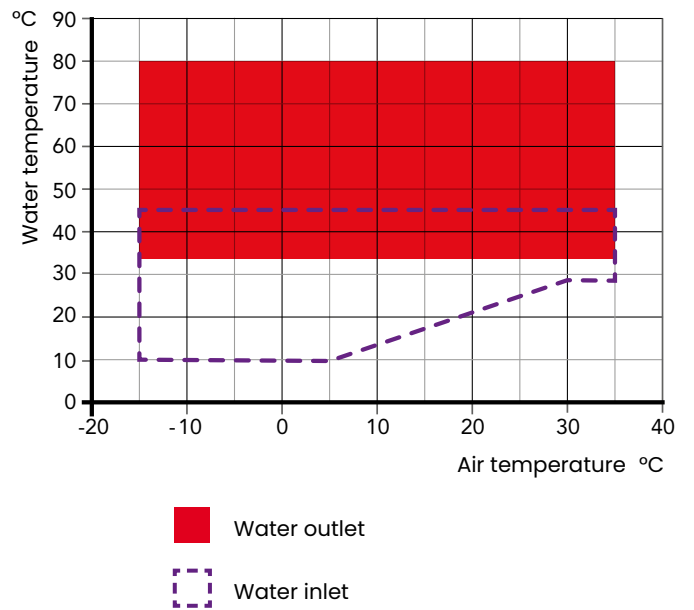
YUKON R - 4-pipe reversible cooling version



YUKON B - Brine version

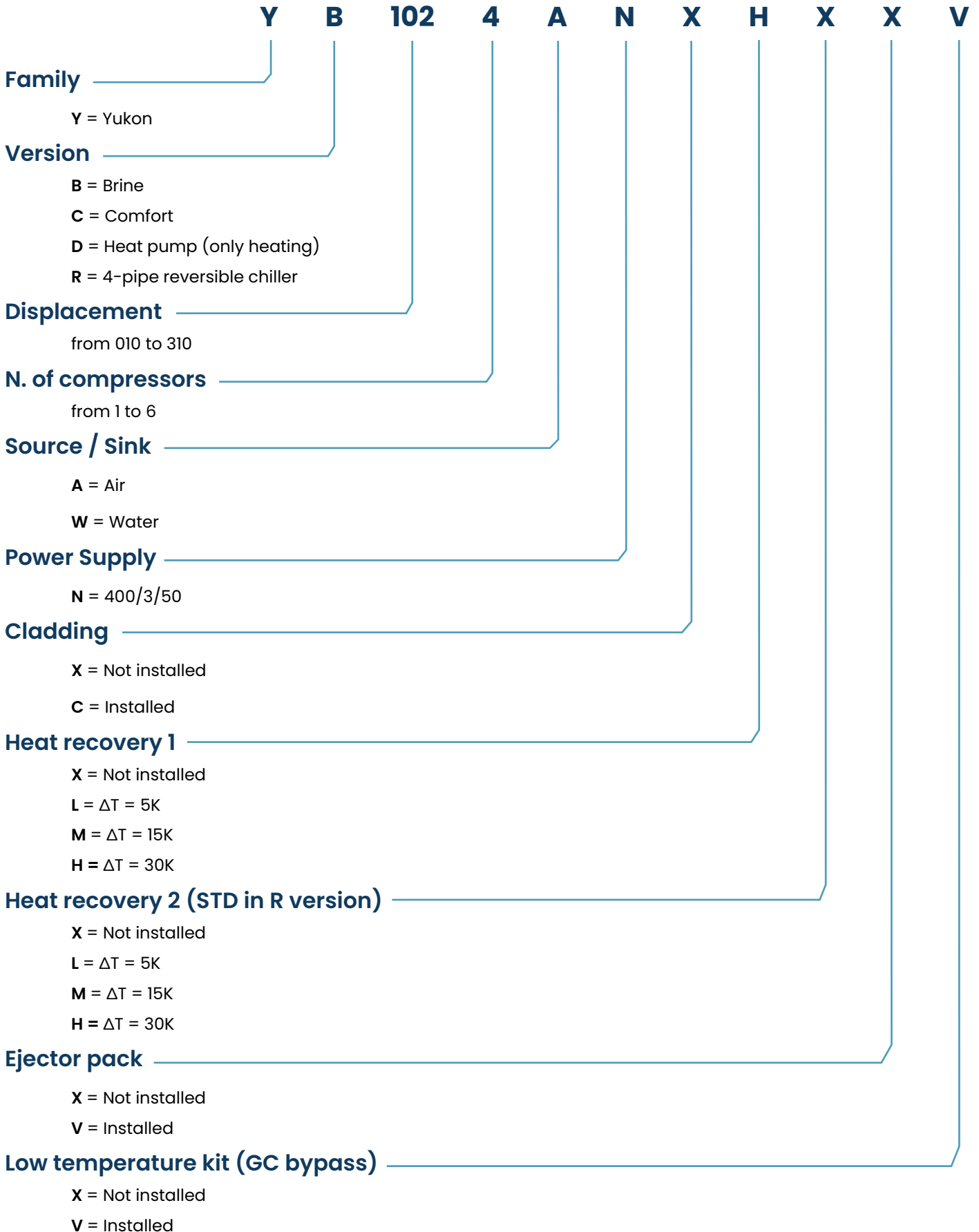


YUKON D - Heat pump version
YUKON R - 4-pipe reversible heating version



UNIT IDENTIFICATION & NOMENCLATURE

The simplest way to define in a clear way & in all details the yukon units for your plant



YUKON D	0111	0241	0302	0402	0533	0643	0754	0884	1055	1215	1386	1586	1744
Flooded evaporator	--	--	--	--	--	--	--	--	--	--	--	--	--
2nd heat recovery hx	--	--	o	o	o	o	o	o	o	o	o	o	o
Soft starter	--	--	--	--	--	--	--	--	--	--	--	--	--
Inverter	•	•	•	•	•	•	•	•	•	•	•	•	•
Low noise opt./cladding	•	•	o	o	o	o	o	o	o	o	o	o	o
Ejector	--	--	--	--	--	--	--	--	--	--	--	--	--
Heat recovery 5K	o	o	o	o	o	o	o	o	o	o	o	o	o
Heat recovery 15K	o	o	o	o	o	o	o	o	o	o	o	o	o
Heat recovery 30K	•	•	•	•	•	•	•	•	•	•	•	•	•
Low temp.kit *	--	--	--	--	--	--	--	--	--	--	--	--	--
Gas cooler	o	o	o	o	o	o	o	o	o	o	o	o	o
Gas cooler LN	□	□	□	□	□	□	□	□	□	□	□	□	□
Modbus TCP/IP	•	•	•	•	•	•	•	•	•	•	•	•	•
Remote monitoring	•	•	•	•	•	•	•	•	•	•	•	•	•

• Standard, o Optional, -- Not available, □ On request
* Mandatory below 10°C of external operating temperature in chiller mode
LN = Low Noise

YUKON R	0111	0241	0302	0402	0533	0643	0754	0884	1055	1215	1386	1586	1744
Flooded evaporator	--	--	•	•	•	•	•	•	•	•	•	•	•
2nd heat recovery hx	--	--	o	o	o	o	o	o	o	o	o	o	o
Soft starter	--	--	--	--	--	--	--	--	--	--	--	--	--
Inverter	•	•	•	•	•	•	•	•	•	•	•	•	•
Low noise opt./cladding	•	•	o	o	o	o	o	o	o	o	o	o	o
Ejector	--	--	o	o	o	o	--	--	--	--	--	--	--
Heat recovery 5K	o	o	o	o	o	o	o	o	o	o	o	o	o
Heat recovery 15K	•	•	•	•	•	•	•	•	•	•	•	•	•
Heat recovery 30K	o	o	o	o	o	o	o	o	o	o	o	o	o
Low temp.kit *	o	o	o	o	o	o	o	o	o	o	o	o	o
Gas cooler	o	o	o	o	o	o	o	o	o	o	o	o	o
Gas cooler LN	□	□	□	□	□	□	□	□	□	□	□	□	□
Modbus TCP/IP	•	•	•	•	•	•	•	•	•	•	•	•	•
Remote monitoring	•	•	•	•	•	•	•	•	•	•	•	•	•

• Standard, o Optional, -- Not available, □ On request
* Mandatory below 10°C of external operating temperature in chiller mode
LN = Low Noise