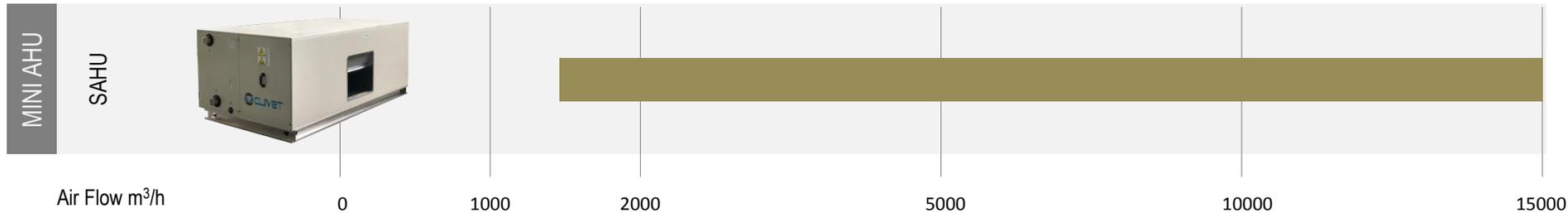




## **SAHU 1-8**

With electronic control

# SAHU at a glance



- **8** sizes available
- Ductable units for **indoor installation**
- **Horizontal** or **Vertical** versions
- Nominal air flow from **1.500** to **15.000 m<sup>3</sup>/h**
- ESP up to **700 Pa \***
- Completely replaces the **CF 91-242** and **CF-V 31-242** series



*(\*) According to the size of the unit and the selected components.*

## One serie with multiple configurations and features



**SAHU** is the **indoor** air treatment unit

It is more than a simple ductable terminal unit

**SAHU** is available in several configuration:

- **Hydronic** without control
- **Direct expansion** technology, connect to Clivet VRF system
- **Hydronic** 2 or 4 pipes **with electronic control**, plug fan with EC brushless motor

**New**

## Two different shape

**Horizontal**, for ceiling suspension or floor installation, supply with:

- Suspension brackets (default configuration)
- Aluminium basement, height 120mm and 2mm thickness



Horizontal with aluminium basement

**Vertical**, for free standing installation or in technical box, supply with:

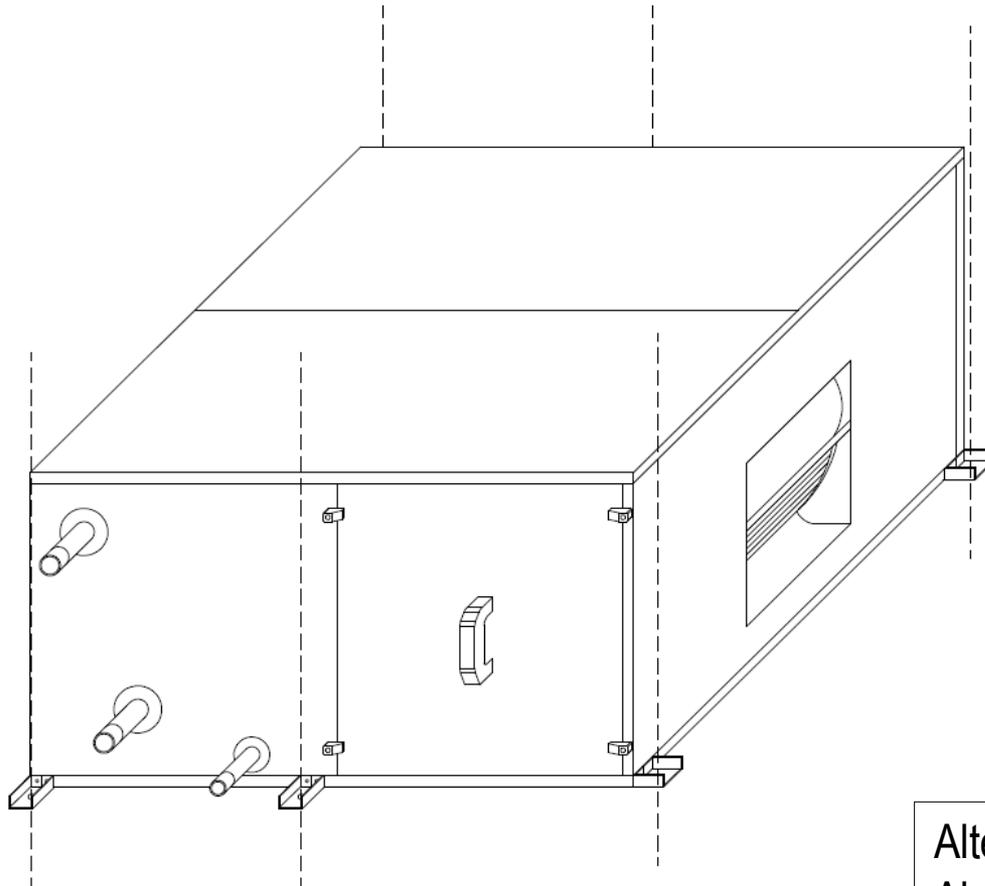
- Without base structure (default configuration)
- Aluminium basement, height 120mm and 2mm thickness



Vertical with aluminium basement

# Horizontal ceiling suspended

The unit is supplied with brackets as standard for ceiling suspension



Alternative option:  
Aluminium basement height 120mm

# Coil section



- Main **water** coil section (4 or 6 rows) or **expansion** (4 rows)
- **Left** or **right** water/gas connections
- Main condensate drain pan in **stainless steel AISI 304**

# Fan section



EC  
Brushless motor

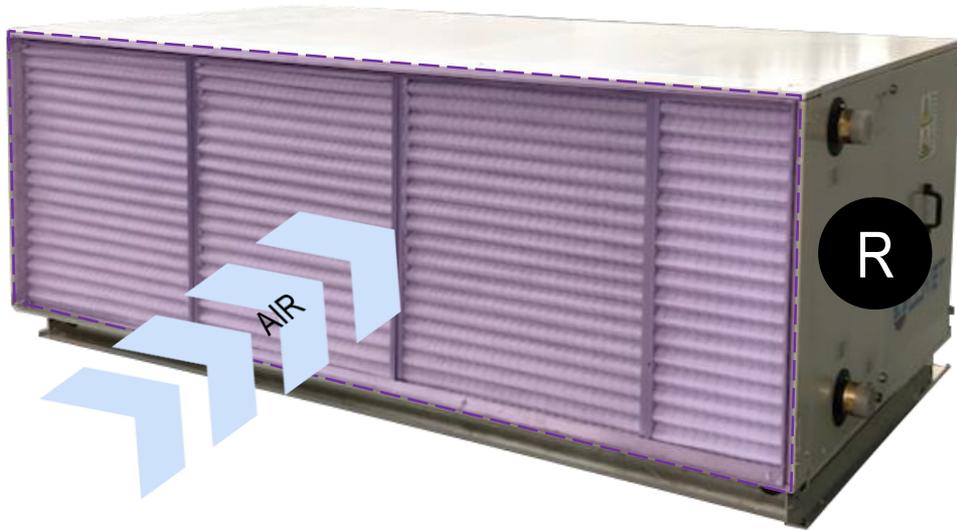
- Radial **plug-fan** with **EC brushless motor**
- Alternative centrifugal fan with **belt/pulley transmission** mounted on anti-vibration supports
- Wide range of **motorizations** (IE3 class EU market; IE1 And IE2 no EU )

# Panels



- Self-supporting **sandwich panels 40mm thickness** (without frame) acoustic and thermal insulation with thermal break:
  - Panel internal skin → **Galvanized steel**
  - Insulation → **Polyurethane injected**
  - Panel external skin → **Galvanized pre-plastified steel**

# Filter section



Type	Description	Width
G4	ISO 16890 Coarse 60%	48mm
M5	ISO 16890 ePM10 65%	98mm
M6	ISO 16890 ePM10 70%	98mm
F7	ISO 16890 ePM1 55%	98mm
F8	ISO 16890 ePM1 70%	98mm
F9	ISO 16890 ePM1 80%	98mm

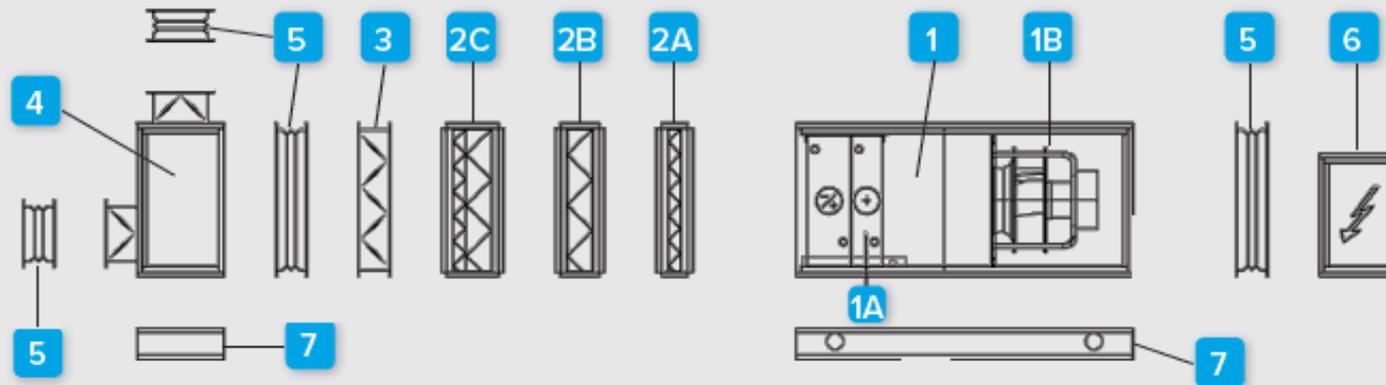
- External frame filter section (48mm up to 98mm)
- Wide range of filters, from **G4** Coarse 60% a **F9** ePM1 80% ISO 16890
- Filter section panel → **Sandwich type 20mm thickness**
- Filters can be removed from **any side** of the unit

# Main accessories

1. Additional heating water coil (1 or 2 row)
2. Electric heaters
3. Mixing box with 2 regulation dampers
4. Basement for unit and mixing box
5. Anti-vibration junction for unit and mixing box

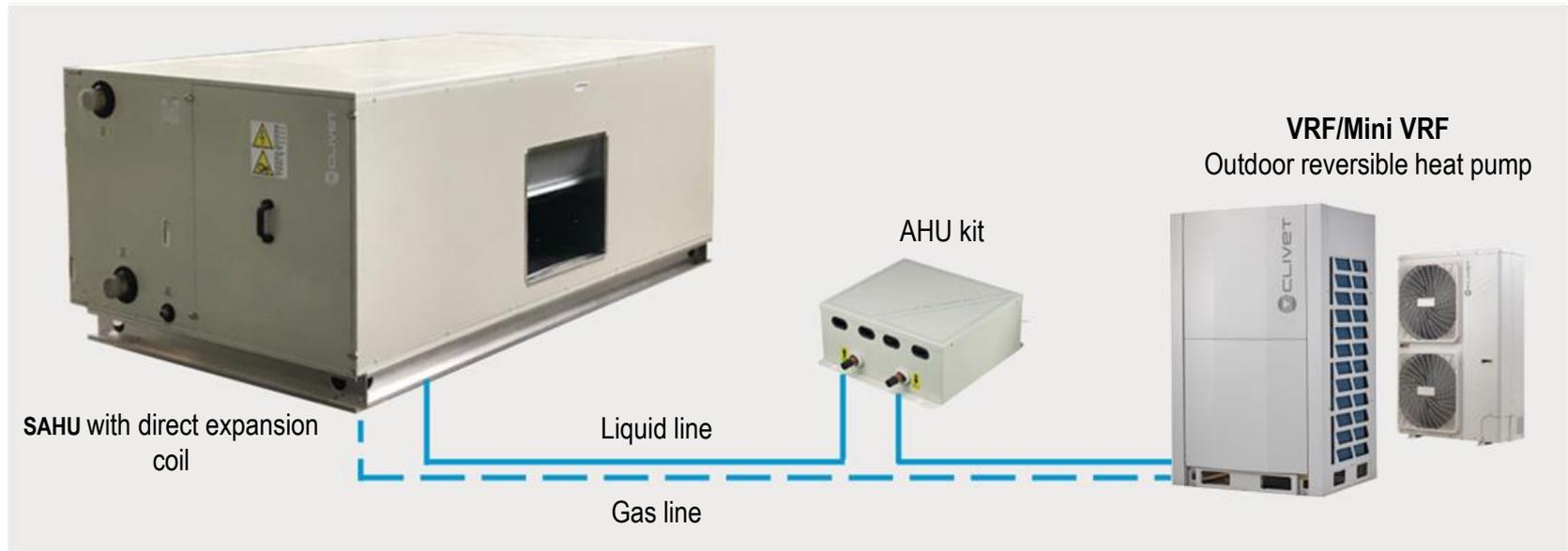


# High configuration flexibility



N°	Description
1	Base unit
1A	1 or 2 row heating coil
1B	Radial fan with Brushless EC motor
2A	Frame for single filter 48mm
2B	Frame for single filter 98mm
2C	Double air filter frame 48+98mm
3	Return damper
4	Air mixing chamber
5	Anti-vibration flexible air duct connector
6	Electric heater module
7	Aluminium base h=120mm

# SAHU with direct expansion coil



Split system to be connect on site:

- **SAHU** with **direct expansion coil**
- AHU kit connection module
- **Clivet VRF or MiniVRF** system

# SAHU with direct expansion coil and electronic control

The system is supply with control module and wired user interface (option by default)

## Wired touch-key standard control (KJR-29-B)

- Main function:
- On/Off of the unit
- Change over Summer/Winter, manually or automatically
- Temperature setting (17°C – 30°C)
- Hourly scheduling
- Only fan function
- Air temperature probe on board
- Management of diagnostics with specific code for each type of error



Wired connection to the unit, max distance up to 15m

# SAHU with direct expansion coil and remote control

Remote control is available as option

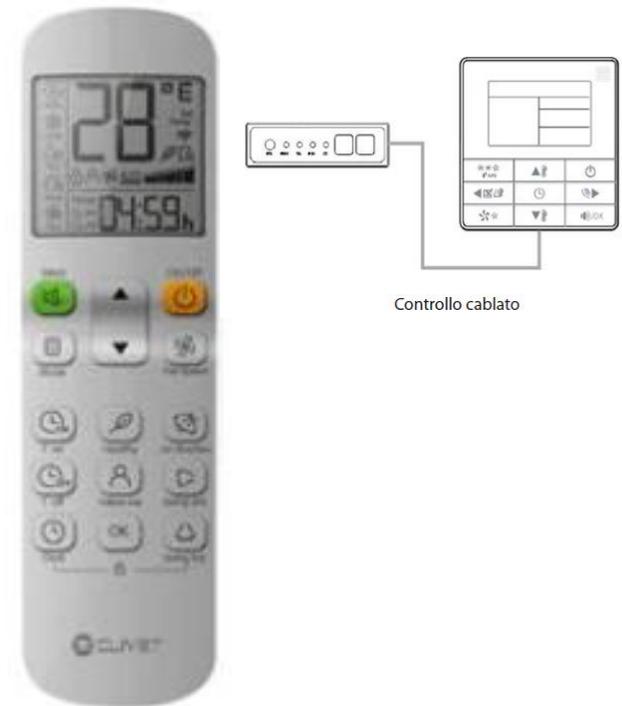
## Infrared remote control (RM12A)

Backlit screen

User friendly

Functions:

- On/Off of the unit
- Change over Summer/Winter, manually or automatically
- Temperature setting (17°C – 30°C)
- 3 speeds fan, or automatic management from min up to max value
- Only fan mode
- Hourly scheduling



Remote control RM12A

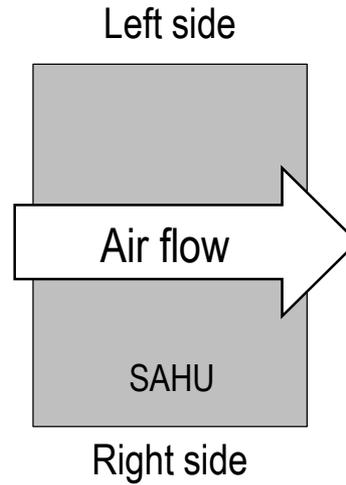
## NEW: Hydronic SAHU with electronic control



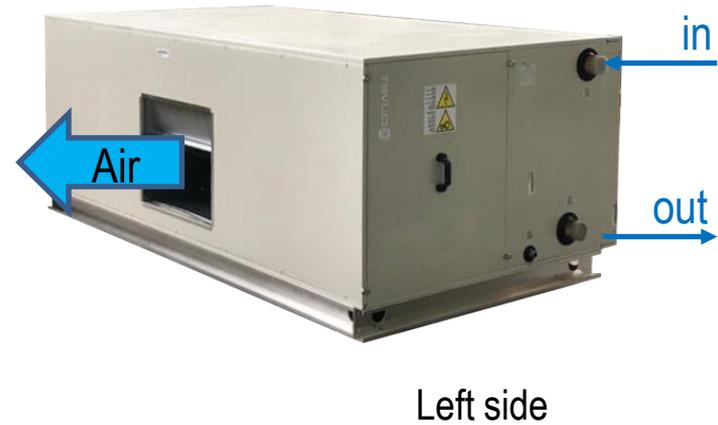
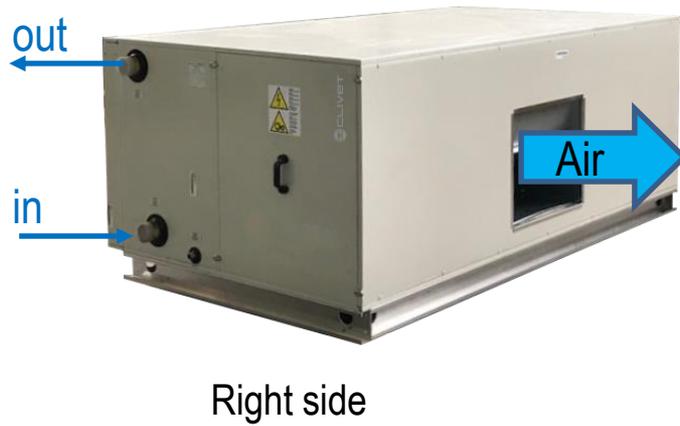
- Management of **2 or 4 water pipes** systems (3 way modulating valve)
- Radial **plug fan** with **EC brushless** motor
- Wired **user interface** with temperature probe
- Electronic control on board

# SAHU Hydronic, left and right water connection

SAHU unit view from top



Automatic management  
of 3 way valve for 2 or 4  
pipes system



# SAHU hydronic with electronic control

2 or 4 Pipes systems unit with radial **plug-fan EC brushless motor**

Supply with external **electric box** with **electronic control**

HiD-T2 User interface allows the full control of the unit

Main functions:

- On/Off of the unit
- Change over Summer/Winter, manually or automatically
- Eco mode operation (with a lower temperature set point)
- 3 speeds fan, or automatic management from min up to max value
- Only fan mode
- Temperature probe on board
- Management of diagnostics with specific code for each type of error

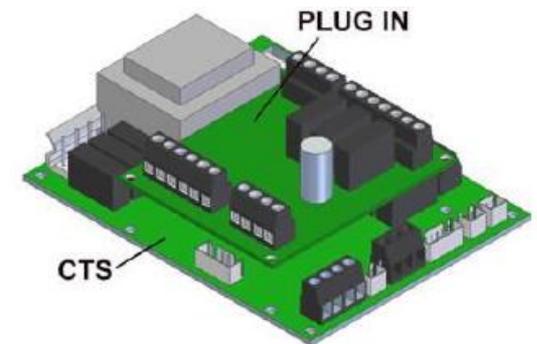


Wired connection with shielded twisted pair, max distance up to 15m

# SAHU hydronic with electronic control

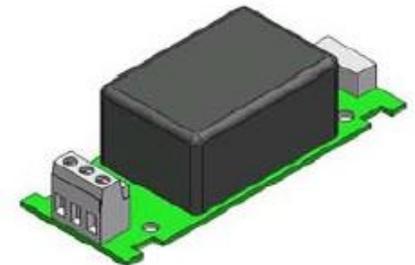
Main management functions::

- Modulating 3 way water valve management, for 2 or 4 pipes system
- Check of minimum water inlet temperature (only on chilled coil)
- Electric heater management with two capacity steps
- Temperature probe on return air, instead of user interface HiD-T2
- Warning by time for filters maintenance



RS 485 Communication serial port with ModBus protocol (optional)

Allowed the connection to supervisor system, or manage a small network up to 8 unit (one as master and 7 slaves)



# SAHU vs CF and CF-V - Features (1/2)

(\*) According to the size of the unit and the selected components.

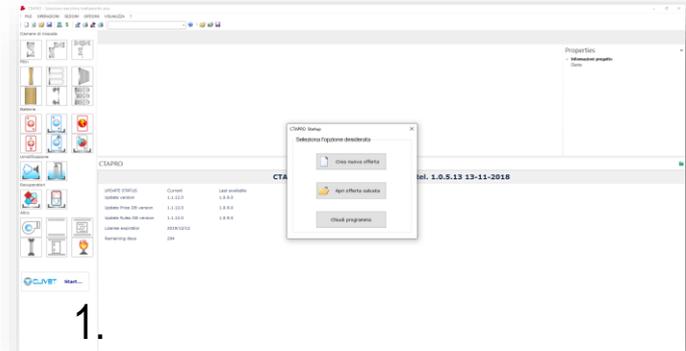
		SAHU 01-08	CF 91-242	CF-V 31-242
Power supply	V/Ph/Hz	400/3/50	400/3/50	230/1/50 (gr. 31÷71) 400/3/50 (gr. 91÷242)
Nominal air flow	m <sup>3</sup> /h	1.500÷15.000	5.100÷13.000	2.000÷14.000
ESP (max)	Pa	700 *	300 *	240 *
Versions	Horizontal / Vertical	H / V	H	V
Main coil	Water (rows)	 (4 o 6)	 (4)	 (4)
	Gas (rows)	 (4)		
Additional coil	Water (rows)	 (1 o 2)	 (2 gr. 91÷242) (3 gr. 91÷121)	 (2)

# SAHU vs CF and CF-V - Features (2/2)

		SAHU 01-08	CF 91-242	CF-V 31-242
Centrifugal B&P	-			(dir. couple 31÷71)
Plug Fan EC	-			
Panels	-	Sandwich 40mm	Sheet metal + insulation	Sheet metal + insulation
Filters	Class	G4 ÷ F9	G4	G4
Electric heaters	-			
Mixing box	-			
Regulation and controls	-			

# Sales tools

1. **CTAPRO** selection software
2. New technical **brochure** \*
3. **Price List** \*
4. Technical support: [aqx@clivet.com](mailto:aqx@clivet.com)



LISTINO PREZZI

SAHU 01-08  
Mini unità di trattamento d'aria per installazione interna

	21	22	23	24	25	26	27	28
<b>MATERIE PRINCIPALI</b>								
CH1	200	200	616	490	551	680	751	800
CH2	450	251	106	630	541	1006	1000	1000
<b>PREZZI</b>								
PREA	160	174	191	180	207	245	283	330
PREB	150	164	180	169	196	234	271	319
PREF	200	224	242	220	256	316	353	409
PREG	220	244	262	240	276	336	373	429
PREH	240	264	282	260	296	356	393	449
PREI	260	284	302	280	316	376	413	469
PREJ	280	304	322	300	336	396	433	489
PREK	300	324	342	320	356	416	453	509
PREL	320	344	362	340	376	436	473	529
PREM	340	364	382	360	396	456	493	549
PREN	360	384	402	380	416	476	513	569
PREO	380	404	422	400	436	496	533	589
PREP	400	424	442	420	456	516	553	609
PREQ	420	444	462	440	476	536	573	629
PRER	440	464	482	460	496	556	593	649
PRE S	460	484	502	480	516	576	613	669
PRE T	480	504	522	500	536	596	633	689
PRE U	500	524	542	520	556	616	653	709
PRE V	520	544	562	540	576	636	673	729
PRE W	540	564	582	560	596	656	693	749
PRE X	560	584	602	580	616	676	713	769
PRE Y	580	604	622	600	636	696	733	789
PRE Z	600	624	642	620	656	716	753	809
PRE AA	620	644	662	640	676	736	773	829
PRE AB	640	664	682	660	696	756	793	849
PRE AC	660	684	702	680	716	776	813	869
PRE AD	680	704	722	700	736	796	833	889
PRE AE	700	724	742	720	756	816	853	909
PRE AF	720	744	762	740	776	836	873	929
PRE AG	740	764	782	760	796	856	893	949
PRE AH	760	784	802	780	816	876	913	969
PRE AI	780	804	822	800	836	896	933	989
PRE AJ	800	824	842	820	856	916	953	1009
PRE AK	820	844	862	840	876	936	973	1029
PRE AL	840	864	882	860	896	956	993	1049
PRE AM	860	884	902	880	916	976	1013	1069
PRE AN	880	904	922	900	936	996	1033	1089
PRE AO	900	924	942	920	956	1016	1053	1109
PRE AP	920	944	962	940	976	1036	1073	1129
PRE AQ	940	964	982	960	996	1056	1093	1149
PRE AR	960	984	1002	980	1016	1076	1113	1169
PRE AS	980	1004	1022	1000	1036	1096	1133	1189
PRE AT	1000	1024	1042	1020	1056	1116	1153	1209
PRE AU	1020	1044	1062	1040	1076	1136	1173	1229
PRE AV	1040	1064	1082	1060	1096	1156	1193	1249
PRE AW	1060	1084	1102	1080	1116	1176	1213	1269
PRE AX	1080	1104	1122	1100	1136	1196	1233	1289
PRE AY	1100	1124	1142	1120	1156	1216	1253	1309
PRE AZ	1120	1144	1162	1140	1176	1236	1273	1329
PRE BA	1140	1164	1182	1160	1196	1256	1293	1349
PRE BB	1160	1184	1202	1180	1216	1276	1313	1369
PRE BC	1180	1204	1222	1200	1236	1296	1333	1389
PRE BD	1200	1224	1242	1220	1256	1316	1353	1409
PRE BE	1220	1244	1262	1240	1276	1336	1373	1429
PRE BF	1240	1264	1282	1260	1296	1356	1393	1449
PRE BG	1260	1284	1302	1280	1316	1376	1413	1469
PRE BH	1280	1304	1322	1300	1336	1396	1433	1489
PRE BI	1300	1324	1342	1320	1356	1416	1453	1509
PRE BJ	1320	1344	1362	1340	1376	1436	1473	1529
PRE BK	1340	1364	1382	1360	1396	1456	1493	1549
PRE BL	1360	1384	1402	1380	1416	1476	1513	1569
PRE BM	1380	1404	1422	1400	1436	1496	1533	1589
PRE BN	1400	1424	1442	1420	1456	1516	1553	1609
PRE BO	1420	1444	1462	1440	1476	1536	1573	1629
PRE BP	1440	1464	1482	1460	1496	1556	1593	1649
PRE BQ	1460	1484	1502	1480	1516	1576	1613	1669
PRE BR	1480	1504	1522	1500	1536	1596	1633	1689
PRE BS	1500	1524	1542	1520	1556	1616	1653	1709
PRE BT	1520	1544	1562	1540	1576	1636	1673	1729
PRE BU	1540	1564	1582	1560	1596	1656	1693	1749
PRE BV	1560	1584	1602	1580	1616	1676	1713	1769
PRE BV	1580	1604	1622	1600	1636	1696	1733	1789
PRE BW	1600	1624	1642	1620	1656	1716	1753	1809
PRE BX	1620	1644	1662	1640	1676	1736	1773	1829
PRE BY	1640	1664	1682	1660	1696	1756	1793	1849
PRE BZ	1660	1684	1702	1680	1716	1776	1813	1869
PRE CA	1680	1704	1722	1700	1736	1796	1833	1889
PRE CB	1700	1724	1742	1720	1756	1816	1853	1909
PRE CC	1720	1744	1762	1740	1776	1836	1873	1929
PRE CD	1740	1764	1782	1760	1796	1856	1893	1949
PRE CE	1760	1784	1802	1780	1816	1876	1913	1969
PRE CF	1780	1804	1822	1800	1836	1896	1933	1989
PRE CG	1800	1824	1842	1820	1856	1916	1953	2009
PRE CH	1820	1844	1862	1840	1876	1936	1973	2029
PRE CI	1840	1864	1882	1860	1896	1956	1993	2049
PRE CJ	1860	1884	1902	1880	1916	1976	2013	2069
PRE CK	1880	1904	1922	1900	1936	1996	2033	2089
PRE CL	1900	1924	1942	1920	1956	2016	2053	2109
PRE CM	1920	1944	1962	1940	1976	2036	2073	2129
PRE CN	1940	1964	1982	1960	1996	2056	2093	2149
PRE CO	1960	1984	2002	1980	2016	2076	2113	2169
PRE CP	1980	2004	2022	2000	2036	2096	2133	2189
PRE CQ	2000	2024	2042	2020	2056	2116	2153	2209
PRE CR	2020	2044	2062	2040	2076	2136	2173	2229
PRE CS	2040	2064	2082	2060	2096	2156	2193	2249
PRE CT	2060	2084	2102	2080	2116	2176	2213	2269
PRE CU	2080	2104	2122	2100	2136	2196	2233	2289
PRE CV	2100	2124	2142	2120	2156	2216	2253	2309
PRE CW	2120	2144	2162	2140	2176	2236	2273	2329
PRE CX	2140	2164	2182	2160	2196	2256	2293	2349
PRE CY	2160	2184	2202	2180	2216	2276	2313	2369
PRE CZ	2180	2204	2222	2200	2236	2296	2333	2389
PRE DA	2200	2224	2242	2220	2256	2316	2353	2409
PRE DB	2220	2244	2262	2240	2276	2336	2373	2429
PRE DC	2240	2264	2282	2260	2296	2356	2393	2449
PRE DD	2260	2284	2302	2280	2316	2376	2413	2469
PRE DE	2280	2304	2322	2300	2336	2396	2433	2489
PRE DF	2300	2324	2342	2320	2356	2416	2453	2509
PRE DG	2320	2344	2362	2340	2376	2436	2473	2529
PRE DH	2340	2364	2382	2360	2396	2456	2493	2549
PRE DI	2360	2384	2402	2380	2416	2476	2513	2569
PRE DJ	2380	2404	2422	2400	2436	2496	2533	2589
PRE DK	2400	2424	2442	2420	2456	2516	2553	2609
PRE DL	2420	2444	2462	2440	2476	2536	2573	2629
PRE DM	2440	2464	2482	2460	2496	2556	2593	2649
PRE DN	2460	2484	2502	2480	2516	2576	2613	2669
PRE DO	2480	2504	2522	2500	2536	2596	2633	2689
PRE DP	2500	2524	2542	2520	2556	2616	2653	2709
PRE DQ	2520	2544	2562	2540	2576	2636	2673	2729
PRE DR	2540	2564	2582	2560	2596	2656	2693	2749
PRE DS	2560	2584	2602	2580	2616	2676	2713	2769
PRE DT	2580	2604	2622	2600	2636	2696	2733	2789
PRE DU	2600	2624	2642	2620	2656	2716	2753	2809
PRE DV	2620	2644	2662	2640	2676	2736	2773	2829
PRE DW	2640	2664	2682	2660	2696	2756	2793	2849
PRE DX	2660	2684	2702	2680	2716	2776		

# Thank you



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