

- 2. Textová část nabídky** (popis předmětu technický list nabízeného zboží - jednotlivých součástí, příslušenství a software (data sheet), popř. brožuru nebo jeho bližší technický popis, ze kterých bude vyplývat splnění technických podmínek zadavatele, cenová nabídka, ostatní údaje důležité pro posouzení

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# FT-NMR SPECTROMETER HIGH RESOLUTION

- 400 MHz -

For Solid and Liquid State NMR



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## Spectrometer Console

Compact CPU rack integrated in Dual Doors Cabinet (W: 104.2 x D: 56.2 x H: 116 cm)  
Spectrometer Control Unit

CPU Intel Core i7 6100E, 4GB Memory, Hard Disk 320 GB or more

Transmitter & Receiver for Irradiation and Observation (2 RF Channels HF & LF)

High Frequency (HF) Channel for specifically  $^1\text{H}$  and  $^{19}\text{F}$

Low Frequency (LF) Channel for X-nuclei (from  $^{13}\text{C}$  to  $^{31}\text{P}$ )

Frequency Range 75 to 430 MHz

Smart Transceiver System (STS) integrating RF sequence, DDS (Direct Digital Synthesis)

RF Amplifier, Synthesizer, Lock, transmitter, receiver, observation unit and accessories

RF channel frequency min. step 0.001 Hz, Switching time  $\leq$  20 ns, Min. switching time interval 500 ns  
Frequency Range Resolution 0.005 Hz

**RF Channel (FL module)**

- RF unit
- RF power amplifier interface unit
- RF power amplifier unit for Solid and Liquid states (NM-611)
- High Frequency Power Amplifier — 200W (Pulse)
- Low Frequency Power Amplifier — 500W (Pulse)
- Shim control unit with Shim power supply unit
- consists of 24 shim coils
- Shim coils are controlled by Shim controller (NM-611) Y<sub>z</sub>

**ACS Field Gradient unit**

- z-axis delivering 10 amp current for 300 Gauss

**Autotune controller (NM-611) 60ATZ**

- for fully automatic tuning and matching of all nuclei in probe range

**Variable temperature control unit & its Power supply unit**

- for temperature control from -170 to +250 °C (0.1 °C steps ;  $\pm$  0.2 °C depending of the NMR probe)

Interface unit (UBX Hub), Filters, Cables and accessories

**Head Amplifier (HA) Class**

- HA control unit, Low noise GaAs Preamplifier for observation channel, a Second amplifier, HA selector, Tuning module & display, Filters & relays, Interface unit (UBX Hub)

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**Superconducting magnet TASTE C 400/54/JYH/W (NM-04890SCMYWS)**

Super Shielded 9.39 Tesla, 54 mm bore superconducting magnet  
transfer tube, level probe and other accessories

- Gauss position: 0.5 mm
- Vertical position: 1.0 mm
- Horizontal position: 0.5 mm

Liquid Helium holding time: 365 days  
Liquid Nitrogen holding time: 14 days  
Anti-vibration mounts for magnet (NM-S13/115B)

**Workstation DELL Precision 3620 or more (NM-57134PCWE)**

CPU - Intel Xeon E5-1620 - 4 cores HT, 3.6 GHz, 8 Mo, 4 GB  
with a 2x 1 To Hard disk, Memory, Keyboard and mouse  
2 x LCD monitor 24" type Dell UltraSharp 24 Monitor 61cm (24")  
Laser Printer (NM-57040LPR) and Table (NM-ECA/TABLE) a OS  
Microsoft Windows 10® English version

**ECZS/ECZR Standard Program DELTA 5 (NM-66070SW)**

comprehensive Delta software for 1, 2 and 3D data acquisition and processing  
Delta v-5" is a software designed to be compliant with CIPAC Part I  
Unlimited licenses for off-line processing & plotting  
Automation "point & click" NMR operation in Open Access  
Macro programming language  
DOS processing, calculation and processing  
Operational and Application Training  
Initial operational training on-site by BOC NMR experts

**NM-6201MAS MAS Controller**

The MAS Controller used for solid state NMR controls automatically and manually the high speed MAS (Magic Angle Spinning) of a sample tube.

**NM-84040ATM32 3.2 mm High Resolution 400 MHz AutoMAS Probe**

Two channel magic angle spinning (MAS) NMR probe with top loading socket. The probe is equipped with a spinner suitable for 3.2 mm sample tubes and includes a dual resonance channel, tuned to High frequency (HF) and Low frequency (LF), as well as Variable Temperature (VT) and auto-tuning capabilities. Main channel: 13C/15N/19F/29Si/31P/109Ag/125Te/133Ba/135Ba/137Ba/139La/171Yb/173Yb/175Yb/177Yb/199Au/209Bi/207Pb/209Pb/213Bi/215Bi/217Bi/223Rn/225Rn/227Rn/229Rn/231Rn/233Rn/235Rn/237Rn/239Rn/241Rn/243Rn/245Rn/247Rn/249Rn/251Rn/253Rn/255Rn/257Rn/259Rn/261Rn/263Rn/265Rn/267Rn/269Rn/271Rn/273Rn/275Rn/277Rn/279Rn/281Rn/283Rn/285Rn/287Rn/289Rn/291Rn/293Rn/295Rn/297Rn/299Rn/301Rn/303Rn/305Rn/307Rn/309Rn/311Rn/313Rn/315Rn/317Rn/319Rn/321Rn/323Rn/325Rn/327Rn/329Rn/331Rn/333Rn/335Rn/337Rn/339Rn/341Rn/343Rn/345Rn/347Rn/349Rn/351Rn/353Rn/355Rn/357Rn/359Rn/361Rn/363Rn/365Rn/367Rn/369Rn/371Rn/373Rn/375Rn/377Rn/379Rn/381Rn/383Rn/385Rn/387Rn/389Rn/391Rn/393Rn/395Rn/397Rn/399Rn/401Rn/403Rn/405Rn/407Rn/409Rn/411Rn/413Rn/415Rn/417Rn/419Rn/421Rn/423Rn/425Rn/427Rn/429Rn/431Rn/433Rn/435Rn/437Rn/439Rn/441Rn/443Rn/445Rn/447Rn/449Rn/451Rn/453Rn/455Rn/457Rn/459Rn/461Rn/463Rn/465Rn/467Rn/469Rn/471Rn/473Rn/475Rn/477Rn/479Rn/481Rn/483Rn/485Rn/487Rn/489Rn/491Rn/493Rn/495Rn/497Rn/499Rn/501Rn/503Rn/505Rn/507Rn/509Rn/511Rn/513Rn/515Rn/517Rn/519Rn/521Rn/523Rn/525Rn/527Rn/529Rn/531Rn/533Rn/535Rn/537Rn/539Rn/541Rn/543Rn/545Rn/547Rn/549Rn/551Rn/553Rn/555Rn/557Rn/559Rn/561Rn/563Rn/565Rn/567Rn/569Rn/571Rn/573Rn/575Rn/577Rn/579Rn/581Rn/583Rn/585Rn/587Rn/589Rn/591Rn/593Rn/595Rn/597Rn/599Rn/601Rn/603Rn/605Rn/607Rn/609Rn/611Rn/613Rn/615Rn/617Rn/619Rn/621Rn/623Rn/625Rn/627Rn/629Rn/631Rn/633Rn/635Rn/637Rn/639Rn/641Rn/643Rn/645Rn/647Rn/649Rn/651Rn/653Rn/655Rn/657Rn/659Rn/661Rn/663Rn/665Rn/667Rn/669Rn/671Rn/673Rn/675Rn/677Rn/679Rn/681Rn/683Rn/685Rn/687Rn/689Rn/691Rn/693Rn/695Rn/697Rn/699Rn/701Rn/703Rn/705Rn/707Rn/709Rn/711Rn/713Rn/715Rn/717Rn/719Rn/721Rn/723Rn/725Rn/727Rn/729Rn/731Rn/733Rn/735Rn/737Rn/739Rn/741Rn/743Rn/745Rn/747Rn/749Rn/751Rn/753Rn/755Rn/757Rn/759Rn/761Rn/763Rn/765Rn/767Rn/769Rn/771Rn/773Rn/775Rn/777Rn/779Rn/781Rn/783Rn/785Rn/787Rn/789Rn/791Rn/793Rn/795Rn/797Rn/799Rn/801Rn/803Rn/805Rn/807Rn/809Rn/811Rn/813Rn/815Rn/817Rn/819Rn/821Rn/823Rn/825Rn/827Rn/829Rn/831Rn/833Rn/835Rn/837Rn/839Rn/841Rn/843Rn/845Rn/847Rn/849Rn/851Rn/853Rn/855Rn/857Rn/859Rn/861Rn/863Rn/865Rn/867Rn/869Rn/871Rn/873Rn/875Rn/877Rn/879Rn/881Rn/883Rn/885Rn/887Rn/889Rn/891Rn/893Rn/895Rn/897Rn/899Rn/901Rn/903Rn/905Rn/907Rn/909Rn/911Rn/913Rn/915Rn/917Rn/919Rn/921Rn/923Rn/925Rn/927Rn/929Rn/931Rn/933Rn/935Rn/937Rn/939Rn/941Rn/943Rn/945Rn/947Rn/949Rn/951Rn/953Rn/955Rn/957Rn/959Rn/961Rn/963Rn/965Rn/967Rn/969Rn/971Rn/973Rn/975Rn/977Rn/979Rn/981Rn/983Rn/985Rn/987Rn/989Rn/991Rn/993Rn/995Rn/997Rn/999Rn/1001Rn/1003Rn/1005Rn/1007Rn/1009Rn/1011Rn/1013Rn/1015Rn/1017Rn/1019Rn/1021Rn/1023Rn/1025Rn/1027Rn/1029Rn/1031Rn/1033Rn/1035Rn/1037Rn/1039Rn/1041Rn/1043Rn/1045Rn/1047Rn/1049Rn/1051Rn/1053Rn/1055Rn/1057Rn/1059Rn/1061Rn/1063Rn/1065Rn/1067Rn/1069Rn/1071Rn/1073Rn/1075Rn/1077Rn/1079Rn/1081Rn/1083Rn/1085Rn/1087Rn/1089Rn/1091Rn/1093Rn/1095Rn/1097Rn/1099Rn/1101Rn/1103Rn/1105Rn/1107Rn/1109Rn/1111Rn/1113Rn/1115Rn/1117Rn/1119Rn/1121Rn/1123Rn/1125Rn/1127Rn/1129Rn/1131Rn/1133Rn/1135Rn/1137Rn/1139Rn/1141Rn/1143Rn/1145Rn/1147Rn/1149Rn/1151Rn/1153Rn/1155Rn/1157Rn/1159Rn/1161Rn/1163Rn/1165Rn/1167Rn/1169Rn/1171Rn/1173Rn/1175Rn/1177Rn/1179Rn/1181Rn/1183Rn/1185Rn/1187Rn/1189Rn/1191Rn/1193Rn/1195Rn/1197Rn/1199Rn/1201Rn/1203Rn/1205Rn/1207Rn/1209Rn/1211Rn/1213Rn/1215Rn/1217Rn/1219Rn/1221Rn/1223Rn/1225Rn/1227Rn/1229Rn/1231Rn/1233Rn/1235Rn/1237Rn/1239Rn/1241Rn/1243Rn/1245Rn/1247Rn/1249Rn/1251Rn/1253Rn/1255Rn/1257Rn/1259Rn/1261Rn/1263Rn/1265Rn/1267Rn/1269Rn/1271Rn/1273Rn/1275Rn/1277Rn/1279Rn/1281Rn/1283Rn/1285Rn/1287Rn/1289Rn/1291Rn/1293Rn/1295Rn/1297Rn/1299Rn/1301Rn/1303Rn/1305Rn/1307Rn/1309Rn/1311Rn/1313Rn/1315Rn/1317Rn/1319Rn/1321Rn/1323Rn/1325Rn/1327Rn/1329Rn/1331Rn/1333Rn/1335Rn/1337Rn/1339Rn/1341Rn/1343Rn/1345Rn/1347Rn/1349Rn/1351Rn/1353Rn/1355Rn/1357Rn/1359Rn/1361Rn/1363Rn/1365Rn/1367Rn/1369Rn/1371Rn/1373Rn/1375Rn/1377Rn/1379Rn/1381Rn/1383Rn/1385Rn/1387Rn/1389Rn/1391Rn/1393Rn/1395Rn/1397Rn/1399Rn/1401Rn/1403Rn/1405Rn/1407Rn/1409Rn/1411Rn/1413Rn/1415Rn/1417Rn/1419Rn/1421Rn/1423Rn/1425Rn/1427Rn/1429Rn/1431Rn/1433Rn/1435Rn/1437Rn/1439Rn/1441Rn/1443Rn/1445Rn/1447Rn/1449Rn/1451Rn/1453Rn/1455Rn/1457Rn/1459Rn/1461Rn/1463Rn/1465Rn/1467Rn/1469Rn/1471Rn/1473Rn/1475Rn/1477Rn/1479Rn/1481Rn/1483Rn/1485Rn/1487Rn/1489Rn/1491Rn/1493Rn/1495Rn/1497Rn/1499Rn/1501Rn/1503Rn/1505Rn/1507Rn/1509Rn/1511Rn/1513Rn/1515Rn/1517Rn/1519Rn/1521Rn/1523Rn/1525Rn/1527Rn/1529Rn/1531Rn/1533Rn/1535Rn/1537Rn/1539Rn/1541Rn/1543Rn/1545Rn/1547Rn/1549Rn/1551Rn/1553Rn/1555Rn/1557Rn/1559Rn/1561Rn/1563Rn/1565Rn/1567Rn/1569Rn/1571Rn/1573Rn/1575Rn/1577Rn/1579Rn/1581Rn/1583Rn/1585Rn/1587Rn/1589Rn/1591Rn/1593Rn/1595Rn/1597Rn/1599Rn/1601Rn/1603Rn/1605Rn/1607Rn/1609Rn/1611Rn/1613Rn/1615Rn/1617Rn/1619Rn/1621Rn/1623Rn/1625Rn/1627Rn/1629Rn/1631Rn/1633Rn/1635Rn/1637Rn/1639Rn/1641Rn/1643Rn/1645Rn/1647Rn/1649Rn/1651Rn/1653Rn/1655Rn/1657Rn/1659Rn/1661Rn/1663Rn/1665Rn/1667Rn/1669Rn/1671Rn/1673Rn/1675Rn/1677Rn/1679Rn/1681Rn/1683Rn/1685Rn/1687Rn/1689Rn/1691Rn/1693Rn/1695Rn/1697Rn/1699Rn/1701Rn/1703Rn/1705Rn/1707Rn/1709Rn/1711Rn/1713Rn/1715Rn/1717Rn/1719Rn/1721Rn/1723Rn/1725Rn/17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N2 MEMBRAINE SEPARATOR



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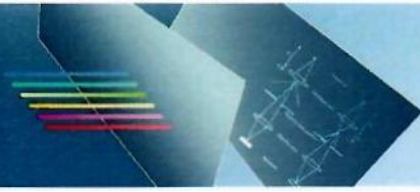


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**CONFIGURATION**

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Amplifier (HA) chassis. Consists of the following:  
A control unit, Preamplifier for observation and lock,  
second amplifier, HA selector, Tuning module & display  
bars & relays, Interface unit (URX Hub)

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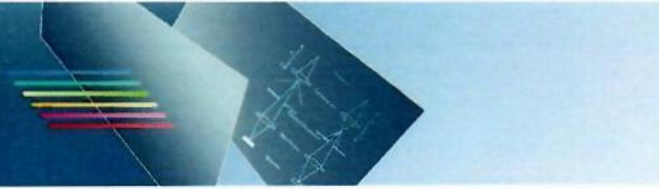
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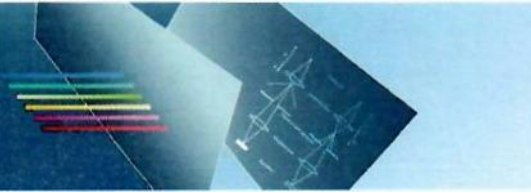
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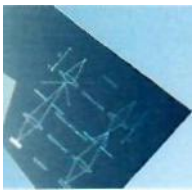
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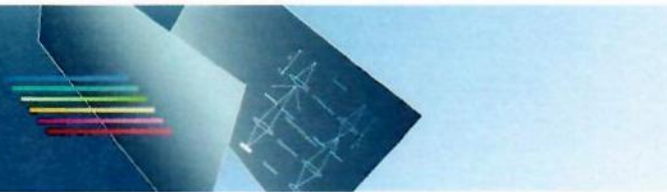
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When performing variable temperature measurement, units in the following table are necessary.

		30L dewar and 30L heater [NM-51750DW30] [NM-51780DHS30]	Cooling Unit *Controller [NM-02530CA0] [NM-02661XR450] [NM-02671XR460]	Super air dryer [NM-05510SDRY]
High temperature measurement	Necessary	Not necessary	Not necessary	Not necessary
Low temperature measurement		Necessary	Necessary	Necessary

Standard configuration of the spectrometer: 30L dewar/30L heater or Cooling unit with controller is necessary.

For high temperature measurement, the probe heater included in the standard configuration of the spectrometer can be used.

For low temperature measurement, the above heater, the air dryer [NM-05510SDRY], and one of the 30 L dewar/30 L heater [NM-51750DW30, NM-51780DHS30] or the cooling unit with controller [NM-02530CA0, NM-02661XR450, or NM-02671XR460] are required.

- 1) This unit can be connected only with the applicable spectrometers.
- 2) To maintain the performance and safety of the unit, it is recommended to perform periodic maintenance every 3 years.

■

Specifications are guaranteed when no modifications or additions are made and are subject to change without notice.