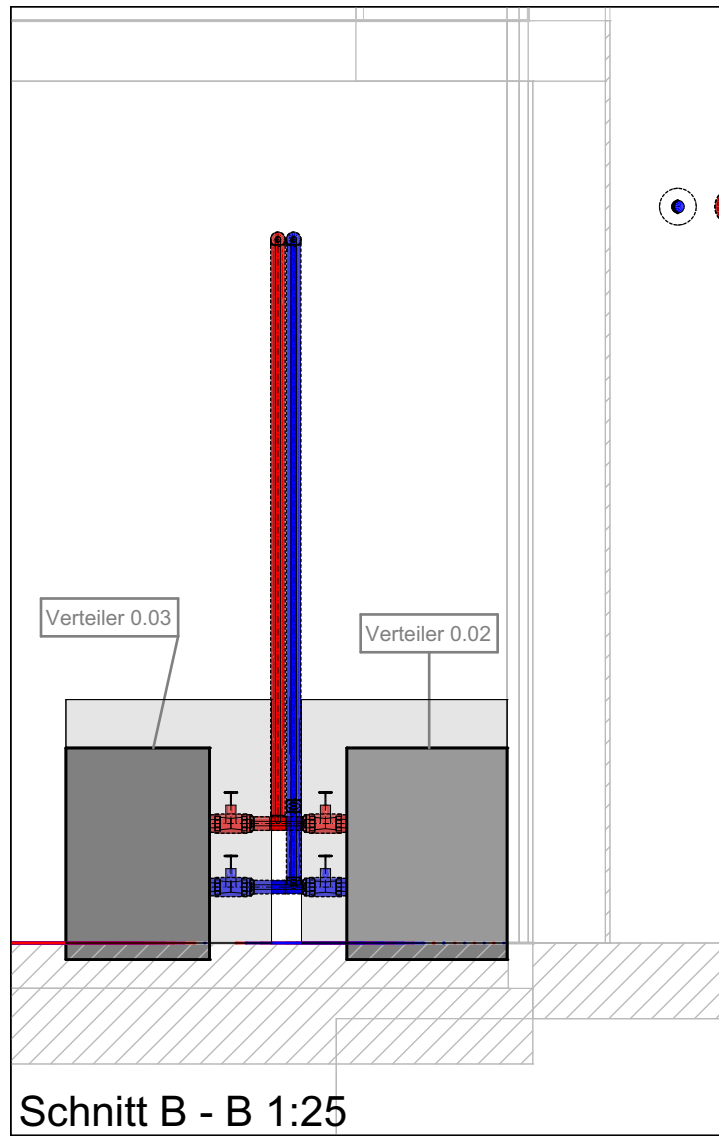
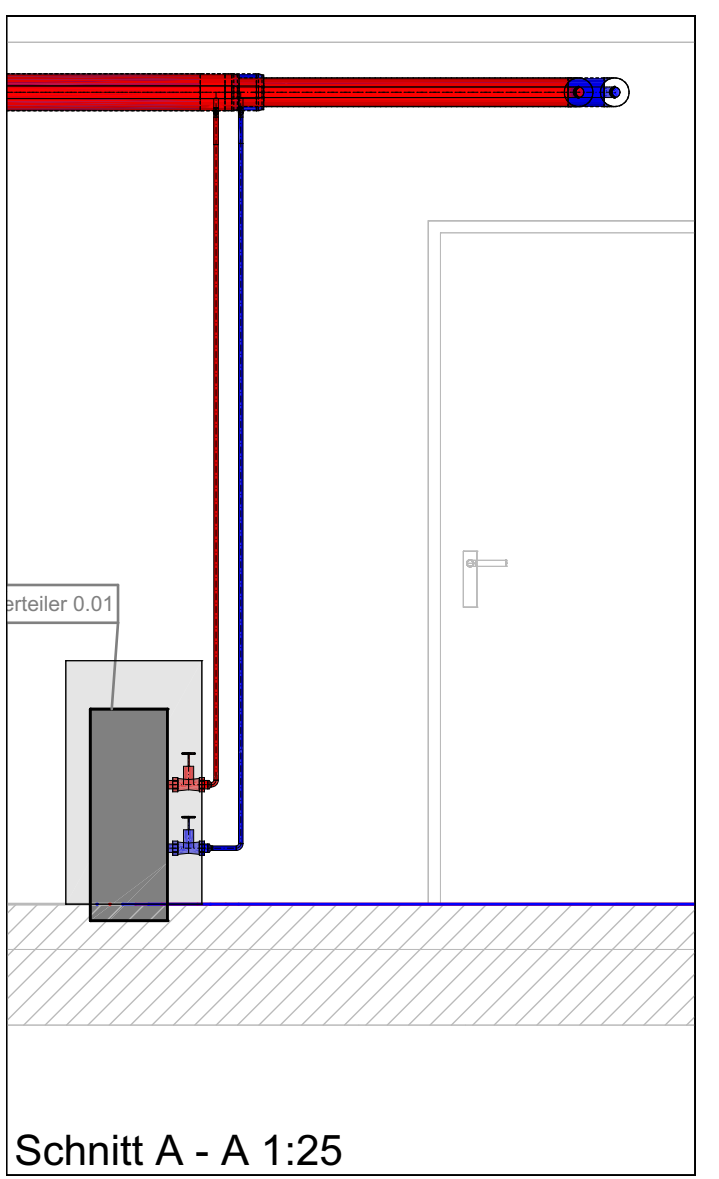




|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|-------|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|-----------------------------|------------|-------|-------|----------|-------|------|
| <div>ALLGEMEINE HINWEISE</div> <div>AUSFÜHRUNG NACH DEN GELTENDEN REGELN DER TECHNIK<br/>GÜLTIGKEIT NUR UNTER GLEICHZEITIGER BEACHTUNG VON GRUNDRISSSEN, SCHEMATISCHEN, BERECHNUNGEN, ARCHITEXTURPLÄNEN<br/>SONNIE PLANEN ANDERER FACHPLANER BEACHTEN<br/>BRANDSCHUTZ BEACHTEN<br/>Ggf. ARBEITSSATTENRICHTUNG BEACHTEN<br/>MAßE VOR ORT PRÜFEN<br/>BEI UNKLARHEITEN BITTEN WIR UM RÜCKFRAGEN</div>                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div>HINWEISE GEWERK</div> <div>VERLEGUNG DER FBH NACH DIN 1284-2 BIS 1284-5<br/>HYDRAULISCHER ABGLEICH ANCH VDI 2033 UND DIN EN 14206<br/>AUSFÜHRUNG NACH GEG<br/>OBERFLÄCHENTEMPERATUR NACH ASR A3.5</div>                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div>LEGENDE</div> <div><div><div><div>AZ</div><div>Vorgelagert</div></div><div><div>A</div><div>Heizkörper</div></div></div><div><div><div>HK</div><div>Heizkörper</div></div><div><div>kg/h</div><div>gesamter Massendurchfluss Verteiler</div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                 |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
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| 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Anpassungen der Darstellung | 28.01.2025 | Berns |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| Index                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Änderung                    | DATUM      | NAME  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>PROJEKT<br/>Projekt name</div><div>Neubau Energiezentrale BPJ</div><div>Energiezentrale Brainergypark<br/>An der deutschen Weile<br/>52428 Jülich<br/>Deutschland</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>BAUHERR<br/>Client</div><div></div><div>Brainergypark Jülich GmbH<br/>Am Brainergypark 1<br/>52428 Jülich<br/>Deutschland</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>DATUMUNTERSCHRIFT<br/>zeichnet/zeichnet</div><div></div><div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>PLANVERFASSER<br/>Designer</div><div></div><div>cm.tech GmbH<br/>Helmholtzstraße 24<br/>52428 Jülich<br/>Germany</div></div>                                                                                                                                                                                                                                                                                                                                                                                                         |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>DATUMUNTERSCHRIFT<br/>zeichnet/zeichnet</div><div></div><div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>PLANNHALT<br/>plan content</div><div>Ausführungsplanung<br/>GRUNDRISS ERDGESCHOSS<br/>Heizungstechnik</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>PLANDATEN<br/>Plan data</div><div><div>MASSSTAB<br/>Scale<br/>1:50</div><div>ERSTFASUNG<br/>First layout<br/>30.10.2025</div><div>BEARBEITER<br/>Editor<br/>Pöppel</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>FORMAT<br/>Size<br/>A0</div><div><div>GEPRÜFT AM<br/>Checked on<br/>16.12.2025</div><div>GEPRÜFT VON<br/>Checked by<br/>Berns</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |
| <div><div>PLANNUMMER<br/>Layout number</div><div><div>241021</div><div>EJD</div><div>HZG</div><div>LP5</div><div>GRE</div><div>201</div><div>01</div><div>F</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |            |       |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |                             |            |       |       |          |       |      |